



December 29, 2005

Mr. Frank Faranca
Case Manager, Bureau of Publicly Funded Site Remediation
New Jersey Department of Environmental Protection
401 E. State Street P.O. Box 028
5th Floor West
Trenton NJ 08625-0028

RE: NJPDES-DGW Permit 0086487 Effective March 1, 2000

Dear Mr. Faranca:

Two copies of the Discharge to Groundwater Report consisting of one (1) T-VWX-014, seven (7) VWX-015 Groundwater Analysis – Monitoring Well reports and report Sections 1.0 through 8.0 for the October through December 2005 quarter are enclosed.

Detection Monitoring was performed in accordance with Part 4-DGW Table 2, using the Ground Water Sampling and Analysis Plan approved in April 1996.

Lenox inspection logs were reviewed and a summary of the logs for the quarter is enclosed.

The “Mann-Whitney U-Test” statistical analysis of the ground water TCE results from the five (5) sentinel wells over eight (8) sampling quarters was rolled forward twenty-five (25) quarters to cover the October 2005 data and is included in section 7 of the report. The null-hypothesis is accepted for sentinel wells MW-75, MW-76, MW-77, MW-78 and MW-79A and we cannot statistically conclude that the TCE concentrations are decreasing for the twenty-fifth (25th) quarter's data set. In addition, MW-75 has been non-detect for the past twenty-four (24) consecutive quarters.

The **bold** data in the tables denotes elevated results, which exceed the site-specific GWQC's for lead (10-ug/l) and zinc (36.7-ug/l) as determined by calculating their arithmetic means from data reported in a 3-year study. Trichloroethylene levels are compared to the New Jersey limit of 1.0 ppb. Please note:

- MW-3 and MW-4 showed elevated levels of total and dissolved lead. MW-73 and MW-74 showed elevated levels of total but not dissolved lead. No other wells showed elevated levels of either total or dissolved lead.
- MW-3, MW-15, MW-17, MW-25, and MW-74 showed elevated levels of both total and dissolved zinc, while MW-73 showed an elevated level of total zinc but not dissolved zinc. Only the replicate for MW-75 showed an elevated level of total but not dissolved zinc which may be considered anomalous;

651294



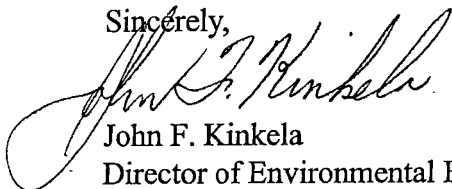
Mr. Frank Faranca
December 29, 2005
Page 2

Re: NJPDES-DGW Permit 0086487 Effective March 1, 2000

- Of the twenty-two (22) wells sampled for TCE this quarter, five (5) wells, MW-15, MW-25, B-59, MW-77 and MW-79A were higher than the last time they were sampled. Five (5) wells decreased: MW-10, MW-12D, MW-12S, B-31 and MW-78. Seven (7) wells, MW-1, MW-13, MW-14D, MW-75, MW-76, MW-80 and MW-81 remained essentially the same. One (1) new well, MW-24D, showed elevated TCE at 2.9-ug/L;
- TCE was elevated in two (2) of the nine (9) downgradient sentinel wells, MW-77 and MW-79A at 2.3 and 4.5-ug/L, respectively. [This report includes four (4) new downgradient sentinel wells, MW-82, MW-83, MW-84, and MW-85.]
- The volatile organic compound cis-1, 2-dichloroethene was detected in six (6) wells: MW-10, MW-12D, MW-24D, B-31, MW-77 and MW-79A. Trans-1,2-dichloroethene was detected in MW-79A. TCE daughter species were not detected in any other wells;
- This event only, Lenox elected to sample the piezometer wells for RW-8 and RW-9. The results were TCE 10.8-ug/L and 0.98J-ug/L, cis-1, 2-dichloroethene 5.6-ug/L and 0.34J-ug/L, respectively. Trans-1,2-dichloroethene was detected in the piezometer well for RW-8 at 0.63J-ug/L
- The Monthly Daily Average Flows for the quarter were 414,853-gallons per day for September 2005, 390,124-gallons per day for October 2005 and 420,673-gallons per day for November 2005;
- GAC Treatment System influent, mid and effluent unfiltered water samples contained elevated total zinc at 233-ug/L, 22.2-ug/L and 364-ug, respectively. The filtered influent, mid and effluent water samples contained elevated zinc at 52.2-ug/L, 26.8-ug/L and 321-ug/L, respectively. The zinc is attributed to the higher zinc levels observed in B-31 and, previously, other wells. ;
- No TCE daughter compounds were detected in the GAC Treatment System influent, mid or effluent water samples;
- GAC Treatment System influent unfiltered water sample contained elevated total lead at 18.4-ug/L;
- Lead was detected, at less than an elevated level, in the GAC Treatment System, unfiltered effluent water sample and in the filtered influent and effluent water samples;
- TCE and cis-1, 2-dichloroethene were detected below the New Jersey MCL's of 1.0 ug/l in only one (1) of the three (3) residential, downgradient wells sampled, RESW-1.

Please call (609) 965-8272 if there are any questions.

Sincerely,



John F. Kinkela
Director of Environmental Engineering

Enclosures -Pomona DGW and TCE Quarterly Groundwater Monitoring Report – October 2005 Monitoring Round
 -Summary of Inspection Logs – October through December 2005 Quarter

bcc: J.H. Ennis (w/attachments)
L.A. Fantin, Lenox (w/attachments)
~~Shane Nelson (w/attachments)~~
File

SUMMARY OF INSPECTION LOGS

Quarter October 2005 – December 2005

Facility: Glaze Basin Cap **Type:** Asphalt Paving

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: NA

Condition: Excellent condition

Remarks: None.

Facility: Slip Mound Cap **Type:** Membrane with soil and vegetative cover - mounded

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: None

Condition: Vegetative cover is in good condition and no erosion was noted. Protective guard rail in good condition.

Remarks: None.

Facility: Nine (9) RCRA Monitoring Wells **Type:** N/A

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: None

Condition: All wells intact and secure.

Remarks: Sampled MW's 1, 3, 4, 6, 9 and 10 in October

SUMMARY OF INSPECTION LOGS

Quarter October 2005 – December 2005

Facility: Nine (9) Recovery Wells **Type:** N/A

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: None

Condition: All wells intact and secure. RW-1, not in use.

Remarks: Recovery well RW-4 pump replaced in October 2005. New recovery well, RW-9, down on December 21. It will be repaired immediately and put back in service.

Facility: Polishing Basin **Type:** N/A - Closed

Inspections: Monthly **Required:** Monthly

Repairs/Maintenance: N/A

Condition: Clean closed. Vegetative cover is in place, no erosion noted.

Remarks: None.

Facility: Tilton Pond **Type:** Earth Dike, Unlined

Inspections: One time per day **Required:** Monthly

Repairs/Maintenance: SWMU maintenance/closure delayed until at least Summer 2006 due to high groundwater. Current groundwater levels are still high.

Condition: Vegetative cover on berms is in good condition and no erosion was noted. No industrial waste discharge to pond since August 1992. No overtopping controls required as pond is permitted to discharge non-contact cooling water and stormwater to surface water under NJPDES-DSW Permit #0005177.

Remarks: As industrial wastewater no longer flows through pond, final cleaning and sampling are planned, when groundwater is low, to effect clean closure.

SUMMARY OF INSPECTION LOGS

Quarter October 2005 – December 2005

Facility: Sludge Disposal Area **Type:** Asphalt Paving

Inspections: Monthly **Required:** No

Repairs/Maintenance: None.

Condition: Asphalt and fence in excellent condition.

Remarks: None

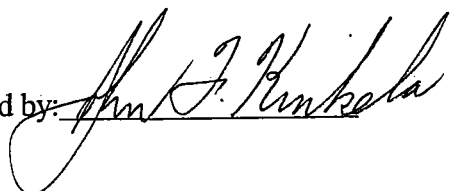
Facility: Area of Concern **Type:** Asphalt Paving, Membrane Cap & Fence

Inspections: Monthly **Required:** No

Repairs/Maintenance: None.

Condition: Asphalt and fence in excellent condition.

Remarks: None

Prepared by: 

Date: 12/28/05

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Form T-VWX-14

MONITORING REPORT - TRANSMITTAL SHEET

NJPDES No.

0086487

REPORTING PERIOD

MO YR MO YR

1005 thru 1205

PERMITEE:

Name LENOX INCORPORATED

Address 100 LENOX DRIVE

LAWRENCEVILLE, NEW JERSEY 08648

FACILITY:

Name LENOX CHINA, A DIVISION OF LENOX INCORPORATED

Address TILTON ROAD

POMONA, NEW JERSEY 08240

(County) ATLANTIC

Telephone (609) 965-8272

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - SANITARY

☐ T-VWX-007 ☐ T-VWX-008 ☐ T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013A

GROUNDWATER REPORT (As per permit)

☒ VWX-015 ☐ VWX-016 ☐ VWX-017

NJPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-01

OPERATING EXCEPTIONS

YES NO

DYE TESTING

☐ ☐

TEMPORARY BYPASSING

☐ ☐

DISINFECTION INTERRUPTION

☐ ☐

MONITORING MALFUNCTIONS

☐ ☐

UNITS OUT OF OPERATION

☐ ☐

OTHER

☐ ☐

(Detail any "yes" on reverse side
in appropriate space.)

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment

PRINCIPAL EXECUTIVE OFFICER or
DULY AUTHORIZED REPRESENTATIVE

LICENSED OPERATOR

Name

Grade & Registry No.

Signature

Name JOHN F. KINKELA

Title DIR. OF ENVIRONMENTAL ENGINEERING

Signature *John F. Kinkela* 12-29-05

REM

Form VWX-15A

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-4

FACILITY NAME		SW ID No.
LENOX CHINA		
LAB NAME		
ACCUTEST, DAYTON, NJ		

SAMPLE DATE

NJPDES No.

WELL PERMIT No.

YR MO DAY

NJ LAB CERT No.

WQM USE

S NJ 0 0 8 6 4 8 7 3 6 - 0 3 1 1 9 - 4 0 5 1 0 2 5 1 2 1 2 9

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM

1	0	0	5
MO		YR	

1	2	0	5
MO		YR	

SUBMIT WITH SIGNED T-VWX-014

J F M A M J J A S O N D
A E A P A U U U E C O E
N B R R Y N L G P T V C

[illegible]

REM

Form VWX-15A

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-6

FACILITY NAME		SW ID No.
LENOX CHINA		
LAB NAME		
ACCUTEST, DAYTON, NJ		

NJPDES No.

WELL PERMIT No.

SAMPLE DATE

NJ LAB CERT No.

WQM USE

S NJ 0 0 8 6 4 8 7 3 6 - 0 3 2 7 0 - 1 0 5 1 0 2 5 1 2 1 2 9 28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM

1	0	0	5
MO		YR	

1	2	0	5
MO		YR	

SUBMIT WITH SIGNED T-VWX-014

J F M A M J J A S O N D
A E A P A U U U E C O E
N B R R Y N L G P T V C

[illegible]

Form VWX-15A

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

OWNER'S WELL ID No. MW-9

FACILITY NAME		LENEX CHINA	SW ID No.
LAB NAME		ACCUTEST, DAYTON, NJ	

SAMPLE DATE

NJPDES No.

WELL PERMIT No.

YR MO DAY

NJ LAB CERT No.

WQM USE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
 S NJ 0 0 8 6 6 4 8 7 3 6 - 0 7 1 6 0 - 9 0 5 1 0 2 5 1 2 1 2 9

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM

1	0	0	5
MO		YR	

1	2	0	5
MO		YR	

SUBMIT WITH SIGNED T-VWX-014

J F M A M J J A S O N D
A E A P A U U U E C O E
N B R R Y N L G P T V C

REMEMBER

[illegible]

[illegible]

LENOX CHINA
A DIVISION OF LENOX, INC.
POMONA, NEW JERSEY

POMONA DGW AND TCE
QUARTERLY GROUNDWATER
MONITORING REPORT
OCTOBER 2005 MONITORING ROUND

PROJECT #43838.020/021
DECEMBER 2005

Office Location:

GANNETT FLEMING
202 Wall Street
Princeton, New Jersey 08540

Office Contacts:

James M. Barish, CPG
Robyn Myhre
(609) 279-9140

CONTENTS

1.0 INTRODUCTION	1
2.0 DETECTION MONITORING PROGRAM (DGW)	3
3.0 GAC TREATMENT SYSTEM MONITORING PROGRAM (DGW)	5
4.0 DEPTH TO WATER, WATER LEVEL ELEVATIONS, AND TREATMENT SYSTEM FLOW MONITORING (DGW)	7
4.1 Depth to Water and Water Level Elevations	7
4.2 Treatment System Flow Monitoring	7
5.0 TCE MONITORING PROGRAM (MOA)	9
5.1 Background	9
5.2 Field Procedures	9
5.3 Groundwater Monitoring Results	10
6.0 SOLID WASTE MANAGEMENT UNIT NO. 2 AND AREA OF CONCERN GROUNDWATER MONITORING PROGRAM (MOA)	13
7.0 CLASSIFICATION EXCEPTION AREA / STATISTICAL ANALYSIS PROGRAM (MOA)	14
8.0 RESIDENTIAL WELL SAMPLING	16

FIGURES

<u>No.</u>	<u>Description</u>
1	Groundwater Flow Map – October 25, 2005
2	Groundwater Flow Map – October 25, 2005– Shallow Wells
3	Groundwater Flow Map – October 25, 2005– Deep Wells
4	Extent of Trichloroethene in Groundwater – October 25-28, 2005
5	Residential Well Sampling Location Map

APPENDICES

APPENDIX A – Groundwater Sampling Logs

APPENDIX B – Groundwater Contour Map Report Form

APPENDIX C – Laboratory Data Reports (Bound Separately)

1.0 INTRODUCTION

This report summarizes the results of the quarterly groundwater monitoring programs that satisfy the requirements outlined in Lenox's NJPDES Discharge to Groundwater (DGW) permit (permit number NJ0086487) and the Memorandum of Agreement (MOA) between Lenox and NJDEP. All groundwater monitoring and analytical procedures were conducted in accordance with the protocols outlined in the most recently revised Groundwater Sampling and Analysis Plan (GWSAP) and Supplemental Groundwater Sampling and Analysis Plan (SGWSAP) approved by NJDEP.

This report presents the DGW and MOA sampling results in a single document and consists of the following components:

- Detection Monitoring Program
- GAC Treatment System Monitoring Program
- Depth to Water and Water Level Elevation Measurements
- TCE Monitoring Program
- SWMU No. 2 and Area of Concern Monitoring Program
- Classification Exception Area/Statistical Analysis Program
- Residential Well Sampling

The first three items satisfy the DGW permit while the remaining items fulfill the requirements of the MOA.

In July 2005 Lenox expanded its groundwater treatment system with the installation of two groundwater recovery wells, bringing to eight the number of extraction wells along the Atlantic Avenue corridor. Four new sentinel wells, one deep zone monitoring well and two piezometers were also installed in July as part of the on-going Classification Exception Area/TCE plume delineation study. The new sentinel and monitoring wells were sampled during the current quarterly monitoring round and will be incorporated in the long term monitoring program through a modification to the SGWSAP. Piezometers PZ-RW8 and PZ-RW9 were installed

upgradient of the new recovery wells for the purposes of tracking water level elevations as part of Lenox's water allocation permit. The piezometers were sampled during the current monitoring round to establish the concentration of TCE in groundwater immediately upgradient of the new recovery system extension. Lenox may elect to occasionally sample the piezometers as a way of anticipating the potential TCE loading to the treatment system, but it does not plan on adding these wells to the routine monitoring program covered by the SGWSAP.

2.0 DETECTION MONITORING PROGRAM (DGW)

The quarterly detection monitoring program covered by the GWSAP consisted of the following activities for the fourth quarter monitoring round:

- Sampled monitoring wells MW-1, MW-3, MW-4, MW-6, MW-9 and MW-10.
- Analyzed the samples for color and total and dissolved lead and zinc. Samples from MW-1 and MW-10 were also analyzed for total and dissolved iron, total dissolved solids (TDS), total suspended solids (TSS) and volatile organic compounds (VOCs).
- Measured specific conductivity, pH, temperature and dissolved oxygen in the field during purging and prior to sample collection.

Table 1, Section 2 summarizes the results of the current sampling event. The full laboratory data report is provided in Appendix C. Tables 2 through 7 summarize historical sampling results for each well since 1998.

The October 2005 monitoring results are summarized below:

- Total lead concentrations ranged from less than the laboratory reporting limit of 3.0 micrograms per liter ($\mu\text{g/l}$) to $72.8\checkmark\mu\text{g/l}$, with the highest concentration in the sample from MW-3 \checkmark . Dissolved lead concentrations ranged from less than the laboratory reporting limit of $3.0\mu\text{g/l}$ to $59.8\checkmark\mu\text{g/l}$, with the highest concentration in the sample from MW-3 \checkmark .
- Total zinc concentrations ranged from less than the laboratory reporting limit of $20\mu\text{g/l}$ to $2,690\checkmark\mu\text{g/l}$, with the highest concentration in the sample from MW-3 \checkmark . Dissolved zinc concentrations ranged from less than the laboratory reporting limit of $20\mu\text{g/l}$ to $2,690\checkmark\mu\text{g/l}$, with the highest concentration also in the sample from MW-3 \checkmark .
- Samples from wells MW-1 and MW-10 were analyzed for iron. Total iron was detected at a concentration of $131\checkmark\mu\text{g/l}$ in MW-1 \checkmark . Total iron was not detected in the sample from

MW-10 at a concentration exceeding the 100 µg/l laboratory reporting limit. Dissolved iron was not detected in either sample at a concentration exceeding the 100 µg/l laboratory reporting limit.

- TDS concentrations were 63 milligrams per liter (mg/l) in the sample from MW-1 and 229 mg/l in the sample from MW-10. TSS concentrations were less than the laboratory reporting limit of 4.0 mg/l in the samples from MW-1 and MW-10.
- Color ranged from 5 color units to 15 color units, with the highest level found in the samples from MW-1 and MW-3.
- There was good agreement between analyte concentrations in the field (MW-10) and duplicate (MW-2) samples.
- None of the target compounds were detected in the field or trip blank samples at concentrations exceeding laboratory reporting limits.

**LENOX CHINA
POMONA, NEW JERSEY**

TABLE 1 SECTION 2

GROUNDWATER QUALITY DATA - OCTOBER 25, 2005

Parameter	Units	MW-1	MW-3	MW-4	MW-6	MW-9	MW-10	MW-2 (MW-10 Dup)	FB-1	TB
pH, Field	pH units	4.60 ✓	5.56 ✓	5.61 ✓	4.13 ✓	5.54 ✓	5.17 ✓	5.17	-	-
Specific Conductance	ms	0.137 ✓	0.276 ✓	0.189 ✓	0.169 ✓	0.284 ✓	0.321 ✓	0.321	-	-
Oxygen, Dissolved	mg/l	6.40 ✓	3.80 ✓	6.40 ✓	4.70 ✓	2.18 ✓	1.50 ✓	1.50	-	-
Temperature, Field	°C	16.7 ✓	20.6 ✓	19.1 ✓	16.3 ✓	17.5 ✓	17.4 ✓	17.4	-	-
Total Suspended Solids	mg/l	<4.0 ✓	-	-	-	-	<4.0 ✓	7.0 ✓	<4.0	-
Total Dissolved Solids	mg/l	63 ✓	-	-	-	-	229 ✓	265 ✓	<10	-
Ammonia-Nitrogen	mg/l	-	-	-	-	-	-	-	-	-
Color	CU units	15 ✓	15 ✓	5 ✓	5 ✓	10 ✓	5 ✓	10 ✓	<5	-
Sulfate	mg/l	-	-	-	-	-	-	-	-	-
Iron, Dissolved	µg/l	<100 ✓	-	-	-	-	<100 ✓	<100 ✓	<100	-
Lead, Dissolved	µg/l	<3.0 ✓	59.8 ✓	10.7 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0	-
Sodium, Dissolved	µg/l	-	-	-	-	-	-	-	-	-
Zinc, Dissolved	µg/l	<20 ✓	2,690 ✓	33.7 ✓	<20 ✓	<20 ✓	<20 ✓	<20 ✓	<20	-
Iron, Total	µg/l	131 ✓	-	-	-	-	<100 ✓	<100 ✓	<100	-
Lead, Total	µg/l	3.3 ✓	72.8 ✓	11.8 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	3.8 ✓	<3.0	-
Sodium, Total	µg/l	-	-	-	-	-	-	-	-	-
Zinc, Total	µg/l	<20 ✓	2,690 ✓	31.0 ✓	<20 ✓	<20 ✓	<20 ✓	<20 ✓	<20	-
Volatile Organic Compounds										
1,1-Dichloroethene	µg/l	<0.49 ✓	-	-	-	-	<0.49	<0.49	<0.49	<0.49
Cis-1,2-Dichloroethene	µg/l	<0.17 ✓	-	-	-	-	0.41 J	0.41 J	<0.17	<0.17
Trans-1,2-Dichloroethene	µg/l	<0.28 ✓	-	-	-	-	<0.28	<0.28	<0.28	<0.28
Methylene Chloride	µg/l	<0.22 ✓	-	-	-	-	<0.22	<0.22	<0.22	<0.22
Trichloroethene (TCE)	µg/l	<0.15 ✓	-	-	-	-	3.9 ✓	3.6 ✓	<0.15	<0.15
Vinyl Chloride	µg/l	<0.13 ✓	-	-	-	-	<0.13	<0.13	<0.13	<0.13
Sum of Volatile Organic Compounds	µg/l	<0.72 ✓	-	-	-	-	4.87	4.57	<0.72	<0.72

Notes:

- = Not Analyzed < = Not Detected J = Estimated Value

Values in **bold font** exceed the site specific Groundwater Quality Criteria for Lead (10 µg/l), Zinc (36.7 µg/l) or TCE (1.0 µg/l).

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

CN 029
Trenton, New Jersey 08625-029

SAMPLE COLLECTION AND PRESERVATION FORM
(To be completed by sampling crew)

BACKGROUND

- 1) Facility Name: Lenox China
- 2) NJPDES Number: NJ0086487
- 3) Facility Address: Tilton Road, Pomona, NJ 08240
- 4) Owner's Name: Lenox China
- 5) Owner's Address: Tilton Road, Pomona, NJ 08240

SAMPLING PLAN

- 6) Has a sampling and analysis plan been developed for this facility as stipulated under N.J.A.C. 7:14A-6.9?
Yes X or No
- 7) If yes, has the sampling plan been approved by the Department?
Yes X or No
- 8) If the sampling plan has not been submitted to the Department, attach with these submitted forms.

SAMPLE COLLECTION

- 9) Sample Date/Time: 10/25/2005
- | 10) Sampling Personnel (Name/Title) | Affiliation | Phone |
|--|------------------------------|---------------------|
| <u>Robyn Myhre, Hydrogeologist</u> | <u>Gannett Fleming, Inc.</u> | <u>609-279-9140</u> |
| <u>Marty Hughes, Environmental Scientist</u> | <u>Gannett Fleming, Inc.</u> | <u>609-279-9140</u> |

11) Weather conditions at the time of sampling: Cloudy, 45 degrees F

12) Is there a designated level of protection, and if so, indicate:
A _____ B _____ C _____ or D X _____

STATIC WATER LEVEL MEASUREMENT AND WELL EVACUATION

13) What method was utilized to determine the static water level?
Electrical (m-scope) _____ X _____ Stainless Steel Tape _____
Sonic _____ or Other _____: (explain) _____

14) Measuring Device Precise to: 0.01 feet

15) Model Number: 101 Manufacturer: Solinst

16) Was the water level indicator deconned between wells?
Yes X or No _____

17) Describe the decontamination procedure: Deionized water rinse, wipe with paper towel, final deionized water rinse, air dry

18) Wells are to be purged three to five times prior to sampling. If wells are not purged as stated above, explain and justify the exact purge method used.
N/A

19) Method used for well evacuation: Pump X or Bailer _____

20) If bailed to evacuate, what are the dimensions of the bailer?
N/A

21) What is the volume capacity of the bailer? N/A

22) Pump Type: Submersible _____ Bladder _____ Gas Piston _____
Gas Displacement _____ or Other X _____
Explain: Peristaltic Pump

23) Pump Model Number / Flow Rate: Randolph Pump Model 750/1-6 gpm

24) Pump manufacturer: Randolph-Austin

25) Describe decontamination method used to clean pump between wells:
None - A new piece of tubing was used at each monitoring well

- | <u>Casing Diameter</u> | <u>Gallons/Linear Foot</u> |
|------------------------|----------------------------|
| 2" | 0.16 |
| 4" | 0.65 |
| 6" | 1.47 |
| 8" | 2.61 |

- SEE TABLE QAQC1 ON PAGE 3A

[illegible]

Table QAQC1
State of New Jersey
Department of Environmental Protection
Division of Water Resources
Groundwater Sampling Data Collected October 25, 2005

Well Permit Number	Owners Well Number	TOC (Feet)	DTW (Feet)	TOC-DTW (Feet)	TDW (Feet)	Gallons per linear foot	Amount of Water in Casing (gallons)	Amount of Water Purged (gallons)	Number of Bail Volumes	Minutes pumping time	Time purge completed	Time sample collected
36-03025-2	MW-1	69.28	12.66	56.62	29.75	0.65	11.1	33	-	20	17:20	17:20
36-03027-9	MW-3	67.09	12.34	54.75	30.40	0.65	11.7	35	-	16	14:00	14:00
36-03119-4	MW-4	66.98	6.38	60.60	26.80	0.65	13.3	45	-	20	16:40	16:40
36-02913-0	MW-5	64.17	10.79	53.38	17.95	-	-	Not Sampled	-	-	-	-
36-03270-1	MW-6	65.08	10.83	54.25	30.75	0.65	12.9	45	-	20	15:05	15:05
36-07160-9	MW-9	69.51	14.95	54.56	31.15	0.65	10.5	33	-	20	16:10	16:10
36-07161-7	MW-10	63.51	9.27	54.24	29.30	0.65	13.0	45	-	15	15:30	15:30

SAMPLE COLLECTION AND PRESERVATION

- 30) Matrices Sampled:
Aqueous: Potable Well_____ Monitoring Well X
Surface Water_____ Leachate_____ Other_____
Nonaqueous: Soil_____ Sediment_____ Other_____
- 31) Dedicated Hose: Yes X or No_____
- 32) Hose Construction: PVC_____ Teflon_____ Tygon_____
Butyl_____ Other X Explain: Drinking water grade polyethylene
- 33) Sample Collection: (Time of collection for each well/sample should be indicated on the back of this page) See table QAQC1 on page 3A
A) Bailer-construction: Teflon_____ Stainless Steel_____
PVC_____ HDPE X
B) Beacon Bomb Sampler_____ Size:_____ oz.
C) Other_____ Explain:_____

- 34) Lines used to lower bailer: Stainless Steel_____
Cable/Leader_____ Teflon_____ PVC Rope_____ Other 100% poly
- 35) Are dedicated bailers used for each well? Yes X or No_____
- 36) Are bailers: Laboratory cleaned_____ Laboratory Name_____
Field Cleaned_____ Describe method:_____
Disposable bailers used only once then discarded.

- 37) Prior to use, are bailers, sample bottles, hoses, etc. Kept clean i.e., not placed in direct contact with ground, etc.:
Yes X or No_____
- 38) Are sample bottles supplied by laboratory? Yes X or No_____
- 39) Are sample preservation instructions supplied by laboratory?
Yes X or No_____
- 40) Are sample preservatives supplied by laboratory? Yes X or No_____

41) Sample Preservation:

Constituent	Teflon top in contact with sample	Head Space	Refrig- erated	Acidified	Alkanized	Bottles
Volatile Organics	Yes	No	Yes	Yes	N/A	N/A
TOX	N/A	N/A	N/A	N/A	N/A	N/A
Extractable Organics	N/A	N/A	N/A	N/A	N/A	N/A
Metals	N/A	N/A	Yes	Yes	N/A	N/A
Cyanide	N/A	N/A	N/A	N/A	N/A	N/A
Phenols	N/A	N/A	N/A	N/A	N/A	N/A
Biological	N/A	N/A	N/A	N/A	N/A	N/A

42) Indicate below any other constituents to be analyzed and their forms of preservation: TDS, TSS, color - refrigerated

43) Were samples for metals analysis filtered in field? Yes X or No _____

44) Were samples for metals analysis filtered in laboratory? Yes _____ or No X

45) Were field blanks taken? Yes X or No _____

46) Were trip blanks taken? Yes X or No _____

47) What parameters/analysis were performed on field and trip blanks?
 Volatile Organics X (FB, TB) Semi-volatile _____ Pesticides _____
 PCBs _____ Metals X (FB) Other TDS, TSS, color (FB)

48) Prior to sampling, was an equipment blank performed? Yes _____
 No X Sampling equipment is dedicated per well.

49) Prior to sampling each well, are disposable gloves worn?
 Yes X or No _____

50) If yes, are the gloves changed between wells? Yes X or No _____

CHAIN OF CUSTODY

- 51) Laboratory Name/Certification Number Accutest / 12129
- 52) Laboratory Address 2235 Route 130, Dayton, New Jersey 08810
- 53) Laboratory receipt date and time 10/26/05, 14:30
- 54) Attach Chain of Custody: Yes X or No

Sample Number	Relinquished by	Received by	Time	Date	Reason for change of custody
MW-1, MW-3, MW-4, MW-6, MW-9, MW-10, MW-2, FB, TB	R. Myhre	Accutest courier	12:45	10/26/05	Relinquished to courier
	Accutest courier	Accutest lab	14:30	10/26/05	Relinquished to lab personnel

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information contained in this report, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete and meets the description specified in N.J.A.C. 7:14A-2.5(a)10, and 6.1 through 6.12. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Sampler

Name/Title (printed) Robyn Myhre, Hydrogeologist

Signature Robyn Myhre Date: 10/28/05

Company Name and Address Gannett Fleming, 202 Wall Street, Princeton, NJ 08540

Notes:

1. The sampling team may use their own reporting forms only if the forms contain all the information required in this sample collection and preservation form.
2. If any of the items within this sample collection and preservation form vary for different monitor wells, the information must be documented within this form or as attachments to this form.



2235 Route 130, Dayton NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information						Project Information																													
Company Name <i>Gannett Fleming</i>						Project Name <i>Lcnex NJPDES</i>																													
Address <i>202 Wall St.</i>						Street <i>Tilton Rd.</i>																													
City <i>Princeton NT</i> State Zip <i>NT</i> <i>08540</i>						City <i>Pomona NT</i> State <i>NT</i>																													
Project Contact <i>Robyn myhre</i> E-mail						Project # <i>43838.020</i>																													
Phone # <i>609-279-9140</i>						Fax #																													
Sampler's Name <i>Robyn myhre</i>						Client Purchase Order #																													
Accutest Sample #	Field ID / Point of Collection	SUMMA #	Collection				Number of preserved Bottles																												
			MEOH Vol #	Date	Time	Sampled By	Matrix	# of bottles	HCl	NHOH	HNO3	H2SO4	NONE	NH4OH	MCH	BIOORE	K260	BTX	MTBE	TBA	NAP	PAUG	STARS	MTBE	+TICS	Total Pb/Zn	Diss. Pb/Zn	Total Fe	Diss. Fe	TDSS/TSS	VOC				
	mW-1			10/25/05	17:20	RM	GW	7	3		2	2												X	X	X	X	X	X	X					
	mW-3				14:00			3			2	1												X	X	X									
	mW-4				16:40			3			2	1												X	X	X									
	mW-6				15:05			3			2	1												X	X	X									
	mW-9				16:10			3			2	1												X	X	X									
	mW-10				15:30			7	3		2	2												X	X	X	X	X	X	X					
	mW-2				15:30		V	7	3		2	2												X	X	X	X	X	X	X					
	FBI				17:45		v	LA	6	2	2	2												X	X	X	X	X	X	X					
	TB				-		-	LA	2	2																				X					
Turnaround Time (Business Days)			Data Deliverable Information										Comments / Remarks																						
<input checked="" type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other _____			Approved By: / Date: _____ _____			<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input checked="" type="checkbox"/> NJ Reduced <input type="checkbox"/> NJ Full <input type="checkbox"/> Other _____ Commercial "A" = Results Only										<input type="checkbox"/> FULL CLP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input checked="" type="checkbox"/> EDD Format <u>NJ</u>										<i>OARC Forms B+C - Signatures</i>									
Emergency & Rush T/A data available VIA LabLink			Sample Custody must be documented below each time samples change possession, including courier delivery.																																
Relinquished by Sampler:			Date Time: 12:45 10/24/05			Received by:			Relinquished by:			Date Time:			Received by:																				
1 Robyn Myhre						D. Hirsch 10.26.05									2																				
Relinquished by:			Date Time:			Received by:			Relinquished by:			Date Time:			Received by:																				
3						3									4																				
Relinquished by:			Date Time:			Received by:			Custody Seal #			Preserved where applicable			On Ice			Cooler Temp.																	
5						5						<input type="checkbox"/>			<input type="checkbox"/>																				

LABORATORY SAMPLE CHAIN OF CUSTODY/CHRONICLE FOR
NJPDES COMPLIANCE MONITORING

Relinquisher of sample: (please print)

Name: Robyn Myhre Signature: Robyn Myhre

Company: Gannett Fleming

Title: Hydrogeologist

Date: 10/26/05 Time: 12:45

Laboratory sample recipient: (please print)

Name: CRAIG PARILLO Signature: Craig Parillo

Laboratory Name: ACCUTEST

NJDEP Laboratory Cert. No. _____ Title: Sen. Tech.

Date: 10/26/05 Time: 1430

Did samples arrive cold? Yes ☒ or No ☐

Were the samples properly preserved? Yes ☒ or No ☐

If no, which analyses will be affected: _____

Did sample for the analyses of volatile organics contain
headspace? Yes ☐ or No ☒

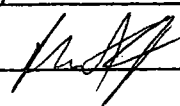
Was the septum in place with the TFE side down? Yes ☒ No ☐

J13138

Sample Preparation Chemist

	<u>Name please print</u>	<u>Signature</u>	<u>Date</u>
1. Base/Neutrals			
2. Acids			
3. Pesticides			
4. Herbicides			
5. PCB's			
6. Metals			
7. Other			
8. Other			
9. Other			

Analyst

	<u>Name please print</u>	<u>Signature</u>	<u>Date</u>
1. Base/Neutrals			
2. Acids			
3. Pesticides			
4. Herbicides			
5. PCB's			
6. Metals			
7. Volatiles	X Robert Scot	X 	X 11/16/05
8. TOC			
9. TOX			
10. Phenols (total)			
11. Cyanide (total)			
12. Other			
13. Other			
14. Other			
15. Other			

Did any of the sample extractions and/or analyses exceed holding times? Yes _____ No ✓

If yes, which analyses will be affected:

If re-extraction and/or re-analysis is necessary, indicate the reason and attach another Laboratory Chain of Custody/Chronicle with the appropriate signatures and dates.

Quality Assurance Officer

Name (please print)

Signature

Date

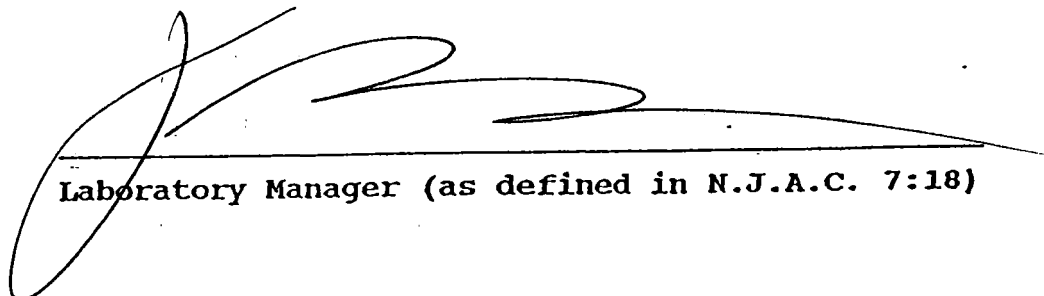
GREGORY TOMKOVICH

Gregory Tomkovich

11/16/05

LABORATORY AUTHENTICATION STATEMENT FOR NJPDES
COMPLIANCE MONITORING

I certify under penalty of law, where applicable, this laboratory meets the Laboratory Performance Standards and Quality control requirements specified in N.J.A.C. 7:18, 40 CFR 136 for Water and Wastewater Analyses and SW 846 for Solid Waste Analyses. I have personally examined and am familiar with the information contained in this report, and that, based on my inquiry of those individuals immediately responsible for obtaining the information. I believe the submitted information is true, accurate, complete, and meets the standards specified in N.J.A.C. 7:18, 40 CFR 136, and/or SW 846. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.



Laboratory Manager (as defined in N.J.A.C. 7:18)

WELL SAMPLING LOG

Gannett Fleming
202 Wall Street
Princeton, New Jersey 08540
(609) 279-9140 (Telephone)
(609) 279-9436 (Facsimile)

I. General Information:

Client Name: Lenox China, Pomona, NJ

Project No.: 43838.020

Project Name: NJPDES Quarterly Monitoring

Sampled By: RM/MH

Well No.: MW-3

Well Use: Monitoring

Sample ID: MW-3

Sample Date: 10/25/05

Sample Time: 14:00

II. Well Information:

PID Reading: -

Well Diameter: 4 inches

Static Depth to Water: 12.34 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Total Well Depth: 30.40 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Δ h: 18.06 feet

Volume of Standing Water: 11.74 gallons

Volume to be removed: 35.22 gallons

Actual Volume removed: 35.00 gallons

III. Sampling Information:

Purging Method:

☒ Peristaltic Pump

☐ Submersible Pump

☐ Bailer

☐ Other _____

Well Drawdown/Recovery:

☒ Good

☐ Poor

☐ Other _____

Pump Flow Rate: 2.2 gpm

Purge Time: 16 min.

Purge Chemistry:

Time	Gallons	pH (Std. Units)	Sp. Cond. (ms)	D. O. (ppm)	Temp. (°C)
13:45	10	5.46	.281	2.4	21.2
13:53	20	5.51	.266	3.3	21.3
14:00	30	5.56	.276	3.8	20.6

Depth to water after purge: 19.70 ft. below m.p.

Time: 14:00

Depth to water prior to sampling: 19.70 ft. below m.p.

Time: 14:00

Sample Appearance: ☐ Turbid

☐ Slightly Turbid

☒ Clear

☐ Other _____

Sample Odor: ☒ None

☐ Other _____

IV. Sample Analyses:

Sample Parameters: Metals (Pb, Zn), Color

Metals:

☒ Filtered

☐ Unfiltered

Laboratory: Accutest

Date Shipped: 10/26/05

WELL SAMPLING LOG

Gannett Fleming
202 Wall Street
Princeton, New Jersey 08540
(609) 279-9140 (Telephone)
(609) 279-9436 (Facsimile)

I. General Information:

Client Name: Lenox China, Pomona, NJ

Project No.: 43838.020

Project Name: NJPDES Quarterly Monitoring

Sampled By: RM/MH

Well No.: MW-1

Well Use: Monitoring

Sample ID: MW-1

Sample Date: 10/25/05

Sample Time: 17:20

II. Well Information:

PID Reading: -

Well Diameter: 4 inches

Static Depth to Water: 12.66 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Total Well Depth: 29.75 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Δ h: 17.09 feet

Volume of Standing Water: 11.00 gallons

Volume to be removed: 33.00 gallons

Actual Volume removed: 33.00 gallons

III. Sampling Information:

Purging Method:

☒ Peristaltic Pump

☐ Submersible Pump

☐ Bailer

☐ Other _____

Well Drawdown/Recovery:

☒ Good

☐ Poor

☐ Other _____

Pump Flow Rate: 1.7 gpm

Purge Time: 20 min.

Purge Chemistry:

Time	Gallons	pH (Std. Units)	Sp. Cond. (ms)	D. O. (ppm)	Temp. (°C)
17:06	10	4.83	.118	6.5	17.0
17:11	20	4.70	.137	6.4	16.8
17:18	30	4.60	.137	6.4	16.7

Depth to water after purge: 14.75 ft. below m.p.

Time: 17:20

Depth to water prior to sampling: 14.75 ft. below m.p.

Time: 17:20

Sample Appearance: ☐ Turbid

☐ Slightly Turbid

☒ Clear

☐ Other _____

Sample Odor: ☒ None

☐ Other _____

IV. Sample Analyses:

Sample Parameters: Voc, Metals (Pb, Zn, Fe), Color, TDS/TSS,

Metals:

☒ Filtered

☒ Unfiltered

Laboratory: Accutest

Date Shipped: 10/26/05

**WELL SAMPLING
LOG**

Gannett Fleming
202 Wall Street
Princeton, New Jersey 08540
(609) 279-9140 (Telephone)
(609) 279-9436 (Facsimile)

I. General Information:Client Name: Lenox China, Pomona, NJProject No.: 43838.020Project Name: NJPDES Quarterly MonitoringSampled By: RM/MHWell No.: MW-4Well Use: MonitoringSample ID: MW-4Sample Date: 10/25/05Sample Time: 16:40**II. Well Information:**PID Reading: -Well Diameter: 4 inchesStatic Depth to Water: 6.38 ft. below m.p.Measuring Point (m.p.): PVC CasingTotal Well Depth: 26.80 ft. below m.p.Measuring Point (m.p.): PVC CasingΔ h: 20.42 feetVolume of Standing Water: 13.27 gallonsVolume to be removed: 40.00 gallonsActual Volume removed: 45.00 gallons**III. Sampling Information:****Purging Method:**☒ Peristaltic Pump☐ Submersible Pump☐ Bailer☐ Other _____

Well Drawdown/Recovery:

☒ Good☐ Poor☐ Other _____Pump Flow Rate: 2.3 gpmPurge Time: 20 min.**Purge Chemistry:**

Time	Gallons	pH (Std. Units)	Sp. Cond. (ms)	D. O. (ppm)	Temp. (°C)
16:24	15	5.83	.185	6.4	18.9
16:29	30	5.79	.186	6.7	19.1
16:36	45	5.61	.189	6.4	19.1

Depth to water after purge: 11.35 ft. below m.p.Time: 16:40Depth to water prior to sampling: 11.35 ft. below m.p.Time: 16:40Sample Appearance: ☐ Turbid☐ Slightly Turbid☒ Clear☐ Other _____Sample Odor: ☒ None☐ Other _____**IV. Sample Analyses:**Sample Parameters: Metals (Pb, Zn), Color

Metals:

☒ Filtered☒ UnfilteredLaboratory: AccutestDate Shipped: 10/26/05

WELL SAMPLING LOG

Gannett Fleming
202 Wall Street
Princeton, New Jersey 08540
(609) 279-9140 (Telephone)
(609) 279-9436 (Facsimile)

I. General Information:

Client Name: Lenox China, Pomona, NJ

Project No.: 43838.020

Project Name: NJPDES Quarterly Monitoring

Sampled By: RM/MH

Well No.: MW-6

Well Use: Monitoring

Sample ID: MW-6

Sample Date: 10/25/05

Sample Time: 15:05

II. Well Information:

PID Reading: -

Well Diameter: 4 inches

Static Depth to Water: 10.83 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Total Well Depth: 30.75 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Δ h: 19.92 feet

Volume of Standing Water: 13.00 gallons

Volume to be removed: 39.00 gallons

Actual Volume removed: 45.00 gallons

III. Sampling Information:

Purging Method:

☒ Peristaltic Pump

☐ Submersible Pump

☐ Bailer

☐ Other _____

Well Drawdown/Recovery:

☒ Good

☐ Poor

☐ Other _____

Pump Flow Rate: 2.3 gpm

Purge Time: 20 min.

Purge Chemistry:

Time	Gallons	pH (Std. Units)	Sp. Cond. (ms)	D. O. (ppm)	Temp. (°C)
14:51	15	4.16	.125	4.5	16.4
14:56	30	4.15	.156	4.7	16.3
15:01	45	4.13	.169	4.7	16.3

Depth to water after purge: 12:35 ft. below m.p.

Time: 15:05

Depth to water prior to sampling: 12:35 ft. below m.p.

Time: 15:05

Sample Appearance: ☐ Turbid

☐ Slightly Turbid

☒ Clear

☐ Other _____

Sample Odor: ☒ None

☐ Other _____

IV. Sample Analyses:

Sample Parameters: Metals (Pb, Zn), Color

Metals:

☒ Filtered

☒ Unfiltered

Laboratory: Accutest

Date Shipped: 10/26/05

WELL SAMPLING LOG

Gannett Fleming
202 Wall Street
Princeton, New Jersey 08540
(609) 279-9140 (Telephone)
(609) 279-9436 (Facsimile)

I. General Information:

Client Name: Lenox China, Pomona, NJ

Project No.: 43838.020

Project Name: NJPDES Quarterly Monitoring

Sampled By: RM/MH

Well No.: MW-9

Well Use: Monitoring

Sample ID: MW-9

Sample Date: 10/25/05

Sample Time: 16:10

II. Well Information:

PID Reading: -

Well Diameter: 4 inches

Static Depth to Water: 14.95 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Total Well Depth: 31.15 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Δ h: 16.20 feet

Volume of Standing Water: 11.00 gallons

Volume to be removed: 33.00 gallons

Actual Volume removed: 33.00 gallons

III. Sampling Information:

Purging Method:

☒ Peristaltic Pump

☐ Submersible Pump

☐ Bailer

☐ Other _____

Well Drawdown/Recovery:

☒ Good

☐ Poor

☐ Other _____

Pump Flow Rate: 1.7 gpm

Purge Time: 20 min.

Purge Chemistry:

Time	Gallons	pH (Std. Units)	Sp. Cond. (ms)	D. O. (ppm)	Temp. (°C)
15:53	10	5.91	.379	1.05	17.6
16:00	20	5.65	.310	2.00	17.5
16:05	30	5.54	.284	2.18	17.5

Depth to water after purge: 15.00 ft. below m.p.

Time: 16:10

Depth to water prior to sampling: 15.00 ft. below m.p.

Time: 16:10

Sample Appearance: ☐ Turbid

☐ Slightly Turbid

☒ Clear

☐ Other _____

Sample Odor: ☒ None

☐ Other _____

IV. Sample Analyses:

Sample Parameters: Metals (Pb, Zn), Color

Metals: ☒ Filtered

☒ Unfiltered

Laboratory: Accutest

Date Shipped: 10/26/05

WELL SAMPLING LOG

Gannett Fleming
202 Wall Street
Princeton, New Jersey 08540
(609) 279-9140 (Telephone)
(609) 279-9436 (Facsimile)

I. General Information:

Client Name: Lenox China, Pomona, NJ

Project No.: 43838.020

Project Name: NJPDES Quarterly Monitoring

Sampled By: RM/MH

Well No.: MW-10

Well Use: Monitoring

Sample ID: MW-10/MW-2

Sample Date: 10/25/05

Sample Time: 15:30

II. Well Information:

PID Reading: -

Well Diameter: 4 inches

Static Depth to Water: 9.27 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Total Well Depth: 29.30 ft. below m.p.

Measuring Point (m.p.): PVC Casing

Δ h: 20.03 feet

Volume of Standing Water: 13.00 gallons

Volume to be removed: 39.00 gallons

Actual Volume removed: 45.00 gallons

III. Sampling Information:

Purging Method:

☒ Peristaltic Pump

☐ Submersible Pump

☐ Bailer

☐ Other _____

Well Drawdown/Recovery:

☒ Good

☐ Poor

☐ Other _____

Pump Flow Rate: 3.0 gpm

Purge Time: 15 min.

Purge Chemistry:

Time	Gallons	pH (Std. Units)	Sp. Cond. (ms)	D. O. (ppm)	Temp. (°C)
15:19	15	5.13	.304	1.32	17.4
15:23	30	5.15	.319	1.31	17.4
15:28	45	5.17	.321	1.50	17.4

Depth to water after purge: 9.90 ft. below m.p.

Time: 15:30

Depth to water prior to sampling: 9.90 ft. below m.p.

Time: 15:30

Sample Appearance: ☐ Turbid

☐ Slightly Turbid

☒ Clear

☐ Other _____

Sample Odor: ☒ None

☐ Other _____

IV. Sample Analyses:

Sample Parameters: Voc, Metals (Pb, Zn, Fe), Color, TDS/TSS

Metals:

☒ Filtered

☒ Unfiltered

Laboratory: Accutest

Date Shipped: 10/26/05

3.0 GAC TREATMENT SYSTEM MONITORING PROGRAM (DGW)

Influent, mid-point, and effluent samples from the GAC unit were analyzed for TCE and its breakdown products (1,1-DCE, cis/trans 1,2-DCE, and vinyl chloride), total and dissolved iron, lead, and zinc, TDS, and TSS. The analytical results are summarized in Table 1, Section 3.

The October 2005 GAC monitoring results are summarized below:

- The GAC influent and mid-point sample contained TCE at 3.2 µg/l and 0.5 µg/l. The effluent sample did not contain TCE at a concentration exceeding the 0.50 µg/l laboratory reporting limit.
- 1,1-Dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride were not detected in the influent, mid-point or effluent samples at concentrations exceeding the laboratory reporting limits.
- Lead concentrations in the unfiltered influent, mid-point and effluent samples were 18.4 µg/l, <1.2 µg/l and 3.5 µg/l, respectively. Lead concentrations in the filtered influent, mid-point and effluent samples were 5.1 µg/l, <1.2 µg/l and 2.1 µg/l, respectively.
- Zinc concentrations in the unfiltered influent, mid-point and effluent samples were 233 µg/l, 22.2 µg/l and 364 µg/l, respectively. Zinc concentrations in the filtered samples were 52.2 µg/l, 26.8 µg/l and 321 µg/l, respectively.
- Iron concentrations in the unfiltered influent, mid-point and effluent samples were 1,190 µg/l, 44.5 µg/l and 1,110 µg/l, respectively. Iron concentrations in the filtered samples were 250 µg/l, 45.9 µg/l and 966 µg/l, respectively.

- TDS concentrations in the influent, mid-point and effluent samples were 70✓ mg/l, 81✓ mg/l and 58✓ mg/l, respectively.
- TSS concentrations in the influent, mid-point and effluent samples were less than the laboratory reporting limit of 10✓ mg/l.

**LENOX CHINA FACILITY AND ADJACENT AREA
POMONA, NEW JERSEY**

TABLE 1 SECTION 3

GAC TREATMENT SYSTEM SAMPLING RESULTS, OCTOBER 25, 2005

Sample ID Sample Date	Permit Limits	PO-GAC-INF 10/6/2005	PO-GAC-MID 10/6/2005	PO-GAC-EFF 10/6/2005	Percent Removal
<i>Volatile Organic Compounds (µg/l)</i>					
Trichloroethene (TCE)	1.0	3.2 ✓	0.5 ✓	<0.5 ✓	92.3%
1,1-Dichloroethene	2.0	<0.5 ✓	<0.5 ✓	<0.5 ✓	NA
cis-1,2-Dichloroethene	2.0	<0.5 ✓	<0.5 ✓	<0.5 ✓	NA
trans-1,2-Dichloroethene	2.0	<0.5 ✓	<0.5 ✓	<0.5 ✓	NA
Vinyl chloride	5.0	<0.5 ✓	<0.5 ✓	<0.5 ✓	NA
<i>Metals (µg/l)</i>					
Iron (Unfiltered)	NL	1,190 ✓	44.5 ✓	1,110 ✓	NA
Iron (Filtered)	NL	250 ✓	45.9 ✓	966 ✓	NA
Lead (Unfiltered)	NL	18.4 ✓	<1.2 ✓	3.5 ✓	NA
Lead (Filtered)	NL	5.1 ✓	<1.2 ✓	2.1 ✓	NA
Zinc (Unfiltered)	NL	233 ✓	22.2 ✓	364 ✓	NA
Zinc (Filtered)	NL	52.2 ✓	26.8 ✓	321 ✓	NA
TDS (mg/l)	NL	70 ✓	81 ✓	58 ✓	NA
TSS (mg/l)	NL	<10 ✓	<10 ✓	<10 ✓	NA

Notes:

µg/l - Micrograms per liter

NL - No limit

mg/l - Milligrams per liter

NA - Not applicable

* - Results less than the laboratory minimum detection limit were considered to be one half the minimum detection limit

Values in **bold** exceed the site specific Groundwater Quality Criteria of 1.0 µg/l for TCE.

4.0 DEPTH TO WATER, WATER LEVEL ELEVATIONS, AND TREATMENT SYSTEM FLOW MONITORING (DGW)

4.1 Depth to Water and Water Level Elevations

The October 25, 2005 depth to water and water level elevation data is summarized in Table 1, Section 4. Depths to water in wells on the south and north sides of the plant that screen the same interval as the recovery wells were used to develop the water level elevation and groundwater flow map (Figure 1). As shown in Figure 1, the groundwater flow direction is to the northeast, which is consistent with previous measurements. The new sentinel and deep wells have not been surveyed as of the date of this report. These wells will be surveyed during the next quarter and the groundwater elevation data will be incorporated into the next quarterly monitoring report.

The depth to water measurements in the well points installed downgradient of the recovery wells were plotted to develop the water level elevation and groundwater flow direction maps shown in Figures 2 and 3. The water level elevations in the deep zone monitoring wells (wells MW-12D, MW-14D and MW-24D) and the calculated groundwater flow direction will be provided in the next quarterly groundwater monitoring report.

4.2 Treatment System Flow Monitoring

In a letter to Lenox dated April 18, 2000, NJDEP requested that Lenox propose an "Average Daily Volume" (ADV) that would represent the minimum pumping volume required to adequately capture the TCE plume. The ADV would be calculated by dividing the total volume of groundwater extracted by the recovery system each month by the number of days in the month and would be reported quarterly to NJDEP. In a letter to NJDEP dated May 19, 2000, Lenox proposed an ADV of 268,000 gallons per day, which was based on the results of groundwater modeling and the empirical water level and groundwater chemistry data developed since the recovery system started in 1991.

For this reporting period and each period thereafter, the ADV will be set at 357,300, which reflects the additional pumpage from recovery wells RW-8 and RW-9. Including the pumpage from the new recovery wells, the calculated ADV for the months of September, October and November were 414,853, 390,124, and 420,673 gallons per day, respectively.

**LENOX CHINA FACILITY AND ADJACENT AREA
POMONA, NEW JERSEY**

TABLE 1 SECTION 4

WATER LEVEL MEASUREMENTS, OCTOBER 25, 2005

Well No.	Measuring Point Elevation (ft. above mean sea level)	Depth to Water (ft. below MP)	Water Level Elevation (ft. above mean sea level)
P1	65.69	8.66	57.03
P1A	66.32	9.98	56.34
P1B	66.34	10.08	56.26
P5	66.74	9.28	57.46
P5A	66.74	10.88	55.86
P8A	70.02	13.75	56.27
P8B	70.07	13.27	56.80
P9A	70.90	15.18	55.72
P9B	70.97	15.24	55.73
P9C	71.31	15.42	55.89
MW1	69.28	12.66	56.62
MW3	67.09	12.34	54.75
MW4	66.98	6.38	60.60
MW5	64.17	10.79	53.38
MW6	65.08	10.83	54.25
MW7	67.31	12.82	54.49
MW8	67.16	10.61	56.55
MW9	69.51	14.95	54.56
MW10	63.51	9.27	54.24
MW11	63.05	9.99	53.06
MW12D	62.89	9.59	53.30
MW12S	62.62	9.38	53.24
MW13	64.66	11.17	53.49
MW14D	63.63	9.91	53.72
MW14S	63.64	9.94	53.70
MW15	66.07	11.56	54.51
MW16	62.07	9.16	52.91
MW17	62.09	9.00	53.09
MW23	61.49	8.69	52.80
MW23A	61.78	9.08	52.70
MW24	62.60	9.83	52.77
MW24D	-	9.51	-
MW25	61.13	8.35	52.78
MW25A	61.29	8.51	52.78
MW25B	61.22	8.42	52.80
MW26A (B30A)	62.48	9.84	52.64
MW26B (B30B)	61.65	9.00	52.65
MW72	64.19	9.55	54.64
MW73	63.06	5.83	57.23
MW74	62.56	8.10	54.46

TABLE 1 SECTION 4, CONTINUED...

Well No.	Measuring Point Elevation (ft. above mean sea level)	Depth to Water (ft. below MP)	Water Level Elevation (ft. above mean sea level)
MW75	60.15	7.47	52.68
MW76	60.60	7.99	52.61
MW77	60.41	7.51	52.90
MW78	59.84	8.79	51.05
MW79A	60.51	7.71	52.80
MW80	62.49	8.22	54.27
MW81	61.90	9.54	52.36
MW82	-	13.23	-
MW83	-	7.53	-
MW84	-	7.61	-
MW85	-	8.02	-
B31	62.19	9.51	52.68
B32	63.29	10.77	52.52
B53	62.31	9.20	53.11
B54	62.39	9.17	53.22
B59	60.02	7.81	52.21
B66	61.71	9.15	52.56
B66A	61.60	9.05	52.55
B66B	61.86	9.19	52.67
B67	62.29	9.79	52.50
B70A	61.39	8.63	52.76
B71	62.31	9.67	52.64
PZ1S	60.27	7.59	52.68
PZ1D	60.52	8.06	52.46
PZ2S	60.52	7.82	52.70
PZ2D	60.70	8.14	52.56
PZ3S	61.47	8.87	52.60
PZ3D	61.60	8.98	52.62
PZ4S	60.80	8.13	52.67
PZ4D	61.09	8.46	52.63
PZ5S	60.47	7.73	52.74
PZ5D	60.56	7.91	52.65
PZ6S	60.79	8.11	52.68
PZ6D	60.73	8.07	52.66
P-RW-8	-	9.44	-
P-RW-9	-	8.85	-

5.0 TCE MONITORING PROGRAM (MOA)

5.1 Background

A groundwater investigation performed at the Lenox China facility between January 1987 and February 1990 by Geraghty & Miller (G&M) identified two TCE plumes emanating from an antecedent drum storage pad and degreaser sump. Both antecedent waste handling areas are no longer in use. A second on-site degreaser sump was removed from service in June 1993. Lenox initiated a quarterly groundwater monitoring program to delineate and track the TCE plumes identified by G&M. The monitoring results were also used to design the GWCAS.

5.2 Field Procedures

Twenty-two monitoring wells at and around the Lenox facility were sampled on October 25-28, 2005. The wells consisted of those listed in the most recent (April 1996) SGWSAP approved by the NJDEP, the new wells installed in July of this year (sentinel wells MW-82, MW-83, MW-84 and MW-85, and deep well MW-24D) and deep wells MW-12D and MW-14D. Piezometers PZ-RW8 and PZ-RW9 were also sampled during the October monitoring round. A revised SGWSAP reflecting the additional wells mentioned above will be sent to NJDEP under separate cover.

Each well used to monitor the TCE remediation system contains a three-quarter-inch inner-diameter pump column attached to a one-foot section of well screen. The bottom of the pump column screen is set approximately two feet above the top of the well screen to ensure that the total volume of standing water in the well casing is removed during purging. To purge the wells, a peristaltic pump was attached to the top of the pump column using drinking-water grade polyethylene tubing. Three to five times the volume of standing water in each well was removed and field parameters (pH, specific conductivity, temperature and dissolved oxygen) were monitored during purging. The field parameter data is provided on the well sampling logs in Appendix A. Samples for metals analysis were collected directly from the discharge of the

peristaltic pump. A new section of tubing was used for each well to avoid cross-contamination. Samples for VOC analysis were collected with 60 cc Teflon bailers dedicated to each well.

Unfiltered samples were analyzed for VOCs, iron, zinc, lead, TDS and TSS, except for the samples from the new sentinel wells, the deep zone wells and recovery well piezometers, which were analyzed for VOCs only. Filtered samples were analyzed for iron, zinc and lead. Field blank and duplicate samples collected during the monitoring program and a trip blank supplied by the laboratory were analyzed for quality assurance purposes. All analyses were performed by Accutest Laboratories, located in Dayton, New Jersey (NJDEP certification No. 12129).

5.3 Groundwater Monitoring Results

The groundwater analytical data is summarized in Tables 1, 2, 3 and 4, Section 5. The extent of TCE in groundwater during the October 2005 monitoring round is shown on Figure 4. The laboratory data reports are provided in Appendix C, which is bound separately.

The October 2005 monitoring results are summarized below:

- TCE was not detected in the samples from the new sentinel wells MW-82 through MW-85 at a concentration exceeding the laboratory reporting limit.
- TCE concentrations increased at wells MW-15, MW-25, B-59, MW-77 and MW-79A since the last monitoring round. The largest increase occurred in well MW-77 (1.9 µg/l in July 2005 to 2.3 µg/l in October 2005).
- TCE concentrations decreased in wells MW-10, MW-12S, MW-12D, MW-78 and B-31 since the last monitoring round. The largest decrease occurred in well B-31 (4.8 µg/l in July 2005 to 2.1 µg/l in October 2005).
- TCE concentrations remained effectively unchanged at less than the laboratory reporting limit in wells MW-1, MW-13, MW-14D, MW-75, MW-76, MW-80 and MW-81.

- TCE was detected in the new deep well MW-24D and recovery well piezometers PZ-RW8 and PZ-RW9 at 2.9 µg/l, 10.8 µg/l and 0.98 J µg/l.
- Cis-1,2-dichloroethene was detected in the samples from wells MW-10, MW-12D, MW-24D, MW-77, MW-79A, PZ-RW8 and PZ-RW9 at concentrations ranging from 0.34 J µg/l in PZ-RW9 to 5.6 µg/l in PZ-RW8. Trans-1,2-dichloroethene was detected in the sample from well MW-79A and PZ-RW8 at 0.63 J µg/l and 1.4 µg/l. No other TCE breakdown products were detected at concentrations exceeding the laboratory reporting limits.
- Iron was detected in the unfiltered samples at concentrations ranging from less than the laboratory reporting limit of 100 µg/l to 922 µg/l, with the highest concentration detected in the sample from MW-78. Iron was not detected in any of the filtered samples above the laboratory reporting limit of 100 µg/l.
- Lead was detected in the unfiltered samples at concentrations ranging from less than the laboratory reporting limit of 3.0 µg/l to 9.4 µg/l, with the highest concentration detected in the sample from MW-78. Lead was detected in the filtered sample from MW-15 (3.5 µg/l). No other filtered samples contained lead at concentrations exceeding the laboratory reporting limit of 3.0 µg/l.
- Zinc was detected in the unfiltered samples at concentrations ranging from less than the laboratory reporting limit of 20 µg/l to 103 µg/l, with the highest concentration detected in the sample from MW-15. Zinc was detected in the filtered samples at concentrations ranging from less than the laboratory reporting limit of 20 µg/l to 115 µg/l, with the highest concentration also detected in the sample from MW-15.
- TDS concentrations ranged from <10 mg/l (MW-75) to 229 mg/l (MW-10). TSS concentrations ranged from less than the laboratory reporting limit of 4.0 mg/l to 44.0, which was detected in the sample from well MW-78.

- There was fair agreement between analyte concentrations in the field sample from MW-75 and the field duplicate sample (MW-95).
- TCE, iron, lead, zinc, TDS and TSS were not detected in the field blank samples at concentrations exceeding the laboratory reporting limits. VOCs were not detected in the trip blanks at concentrations exceeding laboratory reporting limits.
- Chloroform was detected in several samples, with concentrations ranging from 0.37 $\mu\text{g/l}$ (B-31) to 3.4 $\mu\text{g/l}$ (MW-79A). Chloroform was not detected in the field or trip blanks and is not considered a site-related compound.

The monitoring data indicate that, since the last sampling round, TCE concentrations at the wells along White Horse Pike (previous sentinel wells) increased at wells MW-77 and MW-79A, decreased at well MW-78 and remained unchanged at less than the laboratory reporting limit at wells MW-75 and MW-76. The greatest change in concentration occurred at well MW-78, where TCE concentrations decreased from 2.3 $\mu\text{g/l}$ in to <0.15 $\mu\text{g/l}$.

**LENOX CHINA FACILITY AND ADJACENT AREA
POMONA, NEW JERSEY**

TABLE 1 SECTION 5

SUMMARY OF TCE CONCENTRATIONS IN GROUNDWATER - JANUARY 2003 THROUGH OCTOBER 2005

Well	Jul. 22-26, 2004	Oct. 18-20, 2004	Jan. 19-21, 2005	April 19-21, 2005	July 18-22, 2005	October 25-28, 2005	
MW1	<0.20	<0.20	<0.20	<0.20	<0.15	<0.15	✓
MW10	6.9	7.0	5.3	5.1	5.6	3.9	✓ -
MW12S	1.0	0.86 J	1.1	1.2	1.0	0.74 J	✓ -
MW12D	-	6.9	6.7	7.0	6.4	5.6	✓ -
MW13	<0.20	<0.20	<0.20	<0.20	<0.15	<0.15	✓
MW-14D	-	<0.20	<0.20	<0.20	<0.15	<0.15	✓
MW15	0.46 J	<0.20	0.88 J	0.64 J	<0.15	0.36 J	✓ +
MW23	-	-	-	7.9	-	-	✓
MW-24D	-	-	-	-	-	2.9	✓
MW25	<0.20	<0.20	<0.20	0.41 J	<0.15	0.35 J	✓ +
B31 (MW27)	7.7	7.7	5.6	6.3	4.8	2.1	✓ -
B32 (MW28)	-	-	-	5.3	-	-	✓
B53	-	-	-	4.4	-	-	✓
B54	-	-	-	88.3	-	-	✓
B59	0.40 J	<0.20	<0.20	0.61 J	<0.15	0.28 J	✓ +
B66	-	-	-	35.8	-	-	✓
B71	-	-	-	1.2	-	-	✓
MW75	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.15/<0.15	<0.15	✓
MW76	0.27 J	<0.20	0.36 J	0.41 J	<0.15	<0.15	✓
MW77	1.5	1.8	1.9	1.8	1.9	2.3	✓ +
MW78	1.6	1.8	2.0	2.2	2.3	<0.15	✓ -
MW79A	5.4	5.8	7.0	5.5	4.0	4.5	✓ +
MW80	<0.20	<0.20	<0.20	<0.20	<0.15	<0.15	✓
MW81	<0.20	<0.20	<0.20	0.33 J	<0.15	<0.15	✓
MW82	-	-	-	-	-	<0.15	✓
MW83	-	-	-	-	-	<0.15	✓
MW84	-	-	-	-	-	<0.15	✓
MW85	-	-	-	-	-	<0.15	✓
PZ-RW-8	-	-	-	-	-	10.8	✓
PZ-RW-9	-	-	-	-	-	0.98 J	✓
GAC Influent	6.1	4.9	4.4	4.7	4.8	3.2	✓
GAC Effluent	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	✓
GAC Mid-Vessel	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	✓

Notes:

All samples analyzed by USEPA Method 624, 601 or 502.2/524.2.

All concentrations are presented in micrograms per liter (ug/l).

- = Not analyzed J = Estimated concentration

Values in **bold font** exceed the site specific Groundwater Quality Criteria for TCE (1.0 ug/l).

increased MW-15, 25, 59, 77, 79A,

decreased MW-10, 12S, 12D, B31, 78,

No Change MW1, 13, 14D, 75, 76, 80, 81,

New MW24D: 82, 83, 84, 85, RW-8, RW-9

TABLE 1 SECTION 5, CONTINUED...

Well	Jan. 29-30, 2003	Apr. 14-16, 2003	Jul. 22-24, 2003	Oct. 28-30, 2003	Jan. 21-22, 2004	Apr. 27-29, 2004
MW1	<0.15	<0.19	<0.19	<0.19	<0.19	<0.19
MW10	3.9	<0.19	<0.19	5.8	3.0	3.9
MW12S	1.6	<0.19	<0.19	1.3	1.3	1.1
MW12D	-	<0.19	-	-	-	5.4
MW13	<0.15	<0.19	<0.19	<0.19	<0.19	<0.19
MW15	2.2	1.3	-	-	-	-
MW23	-	<0.19	<0.19	0.67 J	0.96 J	0.69 J
MW-24D	-	-	-	-	-	-
MW25	2.5	1.5	-	-	-	8.9
B31 (MW27)	24.4	26.1	1.1	0.86 J	<0.19	0.39 J
B32 (MW28)	-	3.4	15.7	10.7	10.0	8.5
B53	-	10.3	-	-	-	8.5
B54	-	75.4	-	-	-	6.7
B59	0.62 J	0.71 J	-	-	-	117
B66	-	37.7	0.96 J	<0.19	<0.19	0.46 J
B70A	-	-	-	-	-	6.3
B71	-	1.2	-	-	-	2.8
MW75	<0.15/<0.15	<0.19/<0.19	<0.19/<0.19	<0.19/<0.19	<0.19/<0.19	<0.19/<0.19
MW76	0.39 J	<0.19	<0.19	<0.19	<0.19	0.30 J
MW77	2.3	1.9	0.67 J	1.7	1.4	1.3
MW78	1.7	1.8	1.1	1.4	1.3	1.2
MW79A	6.4	3.8	<0.19	6.0	5.4	5.2
MW80	<0.15	<0.19	<0.19	<0.19	<0.19	<0.19
MW81	0.50 J	<0.19	<0.19	<0.19	<0.19	0.27 J
GAC Influent	5.6	9.91	20.22	7.6	4.5	5.9
GAC Effluent	<0.26	<0.26	<0.26	<0.5	<0.5	<0.5
GAC Mid-Vessel	<0.26	0.37	<0.26	<0.5	<0.5	<0.5

Notes:

All samples analyzed by USEPA Method 624, 601 or 502.2/524.2.

All concentrations are presented in micrograms per liter (ug/l).

- = Not analyzed J = Estimated concentration

Values in **bold** font exceed the site specific Groundwater Quality Criteria for TCE (1.0 ug/l).

LENOX CHINA FACILITY AND ADJACENT AREA
POMONA, NEW JERSEY

TABLE 2 SECTION 5

TCE AND ASSOCIATED BREAKDOWN PRODUCT CONCENTRATIONS, OCTOBER 25-28, 2005

Well	TCE	cis-DCE	trans-DCE	1,1-DCE	Vinyl Chloride
MW-1	<0.15	<0.17	<0.28	<0.49	<0.13
MW-10	3.9	0.41 J	<0.28	<0.49	<0.13
MW-12S	0.74 J	<0.17	<0.28	<0.49	<0.13
MW-12D	5.6	0.79 J	<0.28	<0.49	<0.13
MW-13	<0.15	<0.17	<0.28	<0.49	<0.13
MW-14D	<0.15	<0.17	<0.28	<0.49	<0.13
MW-15	0.36 J	<0.17	<0.28	<0.49	<0.13
MW24D	2.9	0.92 J	<0.28	<0.49	<0.13
MW-25	0.35 J	<0.17	<0.28	<0.49	<0.13
B-31	2.1	<0.17	<0.28	<0.49	<0.13
B-59	0.28 J	<0.17	<0.28	<0.49	<0.13
MW-75	<0.15	<0.17	<0.28	<0.49	<0.13
MW-95 (Dup of MW-75)	<0.15	<0.17	<0.28	<0.49	<0.13
MW-76	<0.15	<0.17	<0.28	<0.49	<0.13
MW-77	2.3	1.8	<0.28	<0.49	<0.13
MW-78	<0.15	<0.17	<0.28	<0.49	<0.13
MW-79A	4.5	2.4	0.63 J	<0.49	<0.13
MW-80	<0.15	<0.17	<0.28	<0.49	<0.13
MW-81	<0.15	<0.17	<0.28	<0.49	<0.13
MW-82	<0.15	<0.17	<0.28	<0.49	<0.13
MW-83	<0.15	<0.17	<0.28	<0.49	<0.13
MW-84	<0.15	<0.17	<0.28	<0.49	<0.13
MW-85	<0.15	<0.17	<0.28	<0.49	<0.13
PZ-RW-8	10.8	5.6	1.4	<0.49	<0.13
PZ-RW-9	0.98 J	0.34 J	<0.28	<0.49	<0.13

Notes:

All concentrations are presented in micrograms per liter (µg/l).

J = Estimated concentration.

Values in **bold** exceed the site specific Groundwater Quality Criteria for TCE (1.0 µg/l).

**LENOX CHINA FACILITY AND ADJACENT AREAS
POMONA, NEW JERSEY**

TABLE 3 SECTION 5

INORGANIC ANALYTE CONCENTRATIONS, OCTOBER 2005

Well No.	MW-1	MW-10	MW-12S	MW-13	MW-15	MW-25	B-31	B-59
Date Sampled	10/25/05	10/25/05	10/26/05	10/26/05	10/26/05	10/26/05	10/27/05	10/26/05
Metals (µg/l)								
Iron (Unfiltered)	131✓	<100✓	<100✓	<100✓	185✓	135✓	<100✓	<100✓
Iron (Filtered)	<100✓	<100✓	<100✓	<100✓	<100✓	<100✓	<100✓	<100✓
Lead (Unfiltered)	3.3 ✓	<3.0✓	<3.0✓	<3.0✓	<3.0✓	<3.0✓	<3.0✓	<3.0✓
Lead (Filtered)	<3.0✓	<3.0✓	<3.0✓	<3.0✓	3.5 ✓	<3.0✓	<3.0✓	<3.0✓
Zinc (Unfiltered)	<20✓	<20✓	<20✓	<20✓	103 ✓	93.5 ✓	30.5 ✓	<20✓
Zinc (Filtered)	<20✓	<20✓	<20✓	<20✓	115 ✓	105 ✓	33.6 ✓	<20✓
TDS (mg/l)	63✓	229✓	105✓	73✓	198✓	96✓	67✓	79✓
TSS (mg/l)	<4.0✓	<4.0✓	<4.0✓	<4.0✓	<4.0✓	<4.0✓	<4.0✓	<4.0✓

Notes:

µg/l = Micrograms per liter.

mg/l = Milligrams per liter.

Values in **bold** exceed the site specific Groundwater Quality Criteria for Lead (10 µg/l) or Zinc (36.7 µg/l).

TABLE 3, SECTION 5 CONTINUED...

Well No.	MW-75	MW-76	MW-77	MW-78	MW-79A	MW-80	MW-81	MW-95
Date Sampled	10/27/05	10/27/05	10/27/05	10/27/05	10/27/05	10/27/05	10/26/05	10/27/05
Metals (µg/l)								
Iron (Unfiltered)	<100 ✓	<100 ✓	<100 ✓	922 ✓	<100 ✓	<100 ✓	<100 ✓	343 ✓
Iron (Filtered)	<100 ✓	<100 ✓	<100 ✓	<100 ✓	<100 ✓	<100 ✓	<100 ✓	<100 ✓
Lead (Unfiltered)	<3.0 ✓	<3.0 ✓	<3.0 ✓	9.4 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓
Lead (Filtered)	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓
Zinc (Unfiltered)	<20 ✓	<20 ✓	<20 ✓	23.6 ✓	<20 ✓	<20 ✓	<20 ✓	39.9 ✓
Zinc (Filtered)	<20 ✓	<20 ✓	<20 ✓	<20 ✓	<20 ✓	<20 ✓	<20 ✓	<20 ✓
TDS (mg/l)	<10 ✓	94 ✓	20 ✓	11 ✓	94 ✓	63 ✓	38 ✓	<10 ✓
TSS (mg/l)	4.0 ✓	4.0 ✓	<4.0 ✓	44 ✓	<4.0 ✓	<4.0 ✓	<4.0 ✓	6.0 ✓

Notes:

* MW-95 is duplicate of MW-75.

µg/l = Micrograms per liter.

mg/l = Milligrams per liter.

Values in **bold** exceed the site specific Groundwater Quality Criteria for Lead (10 µg/l) or Zinc (36.7 µg/l).

**LENOX CHINA FACILITY AND ADJACENT AREAS
POMONA, NEW JERSEY**

TABLE 4 SECTION 5

QUALITY ASSURANCE/QUALITY CONTROL SAMPLES, OCTOBER 25-28, 2005

Sample ID Sample Matrix Date	FB-1 Field Blank 10/25/2005	FB-2 Field Blank 10/26/2005	FB-3 Field Blank 10/27/2005	TB Trip Blank 10/25/2005	TB-2 Trip Blank 10/27/2005
Trichloroethene	<0.15	<0.15	<0.15	<0.15	<0.15
Iron (Unfiltered)	<100	<100	<100	-	-
Iron (Filtered)	<100	<100	<100	-	-
Lead (Unfiltered)	<3.0	<3.0	<3.0	-	-
Lead (Filtered)	<3.0	<3.0	<3.0	-	-
Zinc (Unfiltered)	<20	<20	<20	-	-
Zinc (Filtered)	<20	<20	<20	-	-
TDS (mg/l)	<10	<10	<10	-	-
TSS (mg/l)	<4.0	<4.0	<4.0	-	-

Notes:

All concentrations presented in micrograms per liter ($\mu\text{g/l}$), unless otherwise noted.

mg/l = Milligrams per liter.

- = Not Analyzed

6.0 SOLID WASTE MANAGEMENT UNIT NO. 2 AND AREA OF CONCERN GROUNDWATER MONITORING PROGRAM (MOA)

The groundwater sampling data from monitoring wells MW-10, MW-17, MW-72, MW-73 and MW-74 are used to assess groundwater quality downgradient of Solid Waste Management Unit (SWMU) No. 2 and the Area of Concern (AOC). Unfiltered and filtered samples from these wells were analyzed for lead and zinc. The groundwater analytical data is summarized in Table 1, Section 6. The laboratory data reports are included in Appendix C.

The October 2005 monitoring results are summarized below:

- Lead was detected in the unfiltered samples at concentrations ranging from less than the laboratory reporting limit of 3.0 to 70.3 µg/l, with the highest concentration detected in the sample from MW-73. Lead was detected in the filtered samples at concentrations ranging from less than the laboratory reporting limit of 3.0 to 9 µg/l, with the highest concentration detected in the sample from MW-73.
- Zinc was detected in the unfiltered samples at concentrations ranging from less than the laboratory reporting limit of 20 to 122 µg/l, with the highest concentration detected in the sample from MW-74. Zinc was detected in the filtered samples at concentrations ranging from less than the laboratory reporting limit of 20 to 91.6 µg/l, with the highest concentration detected in the sample from MW-17.

**LENOX CHINA FACILITY AND ADJACENT AREAS
POMONA, NEW JERSEY**

TABLE 1 SECTION 6

SWMU NO. 2 AND AOC GROUNDWATER MONITORING RESULTS, OCTOBER 2005

Well No.	MW-10	MW-17	MW-72	MW-73	MW-74
Date Sampled	10/25/05	10/26/05	10/26/05	10/26/05	10/26/05
Lead (Unfiltered)	<3.0 ✓	<3.0 ✓	4.8 ✓	70.3 ✓	64.5 ✓
Lead (Filtered)	<3.0 ✓	5.5 ✓	<3.0 ✓	9.0 ✓	<3.0 ✓
Zinc (Unfiltered)	<20 ✓	90.7 ✓	<20 ✓	75.0 ✓	122 ✓
Zinc (Filtered)	<20 ✓	91.6 ✓	<20 ✓	23.8 ✓	43.7 ✓

Notes:

All concentrations presented in micrograms per liter (µg/l).

Values in **bold** exceed the site specific Groundwater Quality Criteria for Lead (10 µg/l) and Zinc (36.7 µg/l).

7.0 CLASSIFICATION EXCEPTION AREA/ STATISTICAL ANALYSIS PROGRAM (MOA)

The groundwater sampling data from MW-1, MW-3F, MW-6F, MW-12S, MW-13, MW-73, MW-74, MW-75 and MW-79A is used to assess groundwater quality downgradient of the Lenox facility. Unfiltered and filtered samples from these wells were analyzed for lead and zinc. The groundwater analytical results are summarized in Table 1, Section 7. The laboratory data reports are included in Appendix C.

The October 2005 results for the Classification Exception Area (CEA) monitoring program are summarized below:

- Lead concentrations in the unfiltered samples ranged from less than the laboratory reporting limit of 3.0 µg/l to 70.3 µg/l (MW-73). Lead concentrations in the filtered samples ranged from less than the laboratory reporting limit of 3.0 µg/l to 9 µg/l (MW-73).
- Zinc concentrations in the unfiltered samples ranged from less than the laboratory reporting limit of 20 µg/l to 122 µg/l (MW-74). Zinc concentrations in the filtered samples ranged from less than the laboratory reporting limit of 20 µg/l to 43.7 µg/l (MW-74).
- TCE concentrations, as summarized in Table 1, Section 5, ranged from less than the laboratory reporting limit of 0.15 µg/l to 5.6 µg/l, with the highest concentration in the sample from well MW-12D¹. TCE concentrations in the sentinel wells along the White Horse Pike ranged from less than the 0.15 µg/l laboratory reporting limit in well MW-75 to 4.5 µg/l in well MW-79A.

¹ During the October monitoring round, the highest TCE concentration was actually detected in the sample from piezometer PZ-RW8, which is not included in the routine monitoring program.

**LENOX CHINA FACILITY AND ADJACENT AREAS
POMONA, NEW JERSEY**

TABLE 1 SECTION 7

CEA GROUNDWATER MONITORING RESULTS, OCTOBER 2005

Well No.	MW-1	MW-3F	MW-6F	MW-12S	MW-13
Date Sampled	10/25/05	10/26/05	10/26/05	10/26/05	10/26/05
Lead (Unfiltered)	3.3 ✓	4.0 ✓	6.9 ✓	<3.0 ✓	<3.0 ✓
Lead (Filtered)	<3.0 ✓	3.9 ✓	4.4 ✓	<3.0 ✓	<3.0 ✓
Zinc (Unfiltered)	<20 ✓	<20 ✓	<20 ✓	<20 ✓	<20 ✓
Zinc (Filtered)	<20 ✓	<20 ✓	<20 ✓	<20 ✓	<20 ✓

Well No.	MW-73	MW-74	MW-75	MW-79A
Date Sampled	10/26/05	10/26/05	10/27/05	10/27/05
Lead (Unfiltered)	70.3 ✓	64.5 ✓	<3.0 ✓	<3.0 ✓
Lead (Filtered)	9.0 ✓	<3.0 ✓	<3.0 ✓	<3.0 ✓
Zinc (Unfiltered)	75.0 ✓	122 ✓	<20 ✓	<20 ✓
Zinc (Filtered)	23.8 ✓	43.7 ✓	<20 ✓	<20 ✓

Notes:

All concentrations presented in micrograms per liter (µg/l).

Values in **bold** exceed the site specific Groundwater Quality Criteria for Lead (10 µg/l) and Zinc (36.7 µg/l).

**LENOX CHINA FACILITY AND ADJACENT AREAS
POMONA, NEW JERSEY**

TABLE 2 SECTION 7

MANN-WHITNEY STATISTICAL TEST SUMMARY

Sentinel Well	Eighth Quarter Ending Date					
	Jul-05			Oct-05		
	Ua	Ub	U	Ua	Ub	U
MW-75	16	0	8	16	0	8
MW-76	12	8	10	12	8	10
MW-77	16	-	16	16	15	15.5
MW-78	16	-	16	12	-	12
MW-79A	10	-	10	7	-	7

Notes:

Null hypothesis will be accepted at the 90% confidence level
when the calculated U value is greater than 3.

If two or more concentrations are identical the test is calculated twice,
once ranking the identical "a" concentrations first (Ua) and once
ranking the "b" concentrations first (Ub). The average of these values
is the actual "U". (N.J.A.C. 7:26 E App. C)

A sufficient number of sampling rounds has not been performed at the new sentinel wells to support a statistical analysis of the data using the Mann-Whitney U-Test. Until such time, the statistical test will continue to be used to evaluate groundwater quality at the previous sentinel wells (MW-75 through MW-79A). Table 2, Section 7 summarizes the results of the statistical analysis. The null hypothesis was accepted at the 90 percent confidence level ($U > 3$) for wells MW-75, MW-76, MW-77, MW-78 and MW-79A, indicating that TCE concentrations have statistically remained the same or increased over the past eight monitoring periods. TCE has not been detected in samples from well MW-75 at a concentration exceeding the laboratory reporting limit for the past twenty-five consecutive quarters.

8.0 RESIDENTIAL WELL SAMPLING

Following discussions with NJDEP and USEPA in 2001,⁷ Lenox agreed to develop and coordinate a sampling program with the Atlantic County Department of Public Health (ACDPH) to assess and track TCE and breakdown product concentrations at residential wells located downgradient of the White Horse Pike (Route 30). Lenox initiated the sampling during the fourth quarter of 2001 at the first three homes immediately downgradient of the White Horse Pike that were not served by public water. A fourth residence was added in January 2003 and is included in the list below. In accordance with the plan developed by Lenox, the sampling results are provided to ACDPH, which in turn provides any significant data directly to the homeowners and the USEPA.

The residences covered by the current quarterly sampling program are shown on Figure 5 and are identified as follows:

- RESW-1, 360 S. Mannheim Avenue
- RESW-2, 357 S. Mannheim Avenue
- RESW-3, 353 S. Mannheim Avenue
- RESW-4, 344 S. Mannheim Avenue

Private wells at homes further north and west of Mannheim Avenue are not included in the sampling program due to their distance from White Horse Pike. Samples from the wells were collected on October 27, 2005 and analyzed by EPA method 524.2. A trip blank was included in the sample shipment and also analyzed using the same method. The current and historical sampling data is summarized in Tables 1 and 2, Section 8. Laboratory data reports are included in Appendix C. The monitoring results are summarized below.

- TCE was detected at a concentration of 0.37 J µg/l in RESW-1. TCE was not detected in the other samples at concentrations above the laboratory reporting limit. TCE breakdown

products were not detected in any sample at concentrations exceeding the laboratory reporting limits.

- Chloroform was detected in three samples at 5.9 µg/l (RESW-1), 0.15 J µg/l (RESW-2) and 0.50 µg/l (RESW-4). Chloroform is not considered a site-related compound.
- Methyl tert-butyl ether (MTBE) was detected in the samples from RESW-1 (0.30 J µg/l), RESW-2 (0.30 J µg/l) and RESW-4 (3.9 µg/l). MTBE is not considered a site-related compound.
- Benzene and p-dichlorobenzene were detected in the sample from RESW-2 at 0.38 J µg/l and 0.19 J µg/l, respectively. Benzene and p-dichlorobenzene are not considered to be site-related compounds.
- The RESW-4 sample contained tetrahydrofuran (14.4 µg/l), toluene (0.38 J µg/l), m/p-xylene (0.24 J µg/l) and o-xylene (0.089 J µg/l). None of these constituents are considered site-related compounds.
- VOCs were not detected in the trip blank at concentrations exceeding the laboratory reporting limits.

The RESW-1 residence was connected to the municipal water supply system on August 20, 2002.

LENOX CHINA
POMONA, NEW JERSEY

TABLE 1 SECTION 8

RESIDENTIAL WELL SAMPLING RESULTS, OCTOBER 27, 2005

Well ID	RESW-1	RESW-2	RESW-3	RESW-4
Acetone	-	-	-	-
2-Butanone	-	-	-	-
Benzene	-	0.38 J ✓	-	-
Bromobenzene	-	-	-	-
Bromochloromethane	-	-	-	-
Bromodichloromethane	-	-	-	-
Bromoform	-	-	-	-
Bromomethane	-	-	-	-
n-Butylbenzene	-	-	-	-
sec-Butylbenzene	-	-	-	-
tert-Butylbenzene	-	-	-	-
Carbon disulfide	-	-	-	-
Chlorobenzene	-	-	-	-
Chloroethane	-	-	-	-
Chloroform	5.9 ✓	0.15 J ✓	-	0.50 ✓
Chloromethane	-	-	-	-
o-Chlorotoluene	-	-	-	-
p-Chlorotoluene	-	-	-	-
Carbon tetrachloride	-	-	-	-
1,1-Dichloroethane	-	-	-	-
1,1-Dichloroethene	-	-	-	-
1,1-Dichloropropene	-	-	-	-
1,2-Dibromo-3-chloropropane	-	-	-	-
1,2-Dibromoethane	-	-	-	-
1,2-Dichloroethane	-	-	-	-
1,2-Dichloropropane	-	-	-	-
1,3-Dichloropropane	-	-	-	-
2,2-Dichloropropane	-	-	-	-
Dibromochloromethane	-	-	-	-
Dibromomethane	-	-	-	-
Dichlorodifluoromethane	-	-	-	-
Cis-1,3-Dichloropropene	-	-	-	-
m-Dichlorobenzene	-	-	-	-
o-Dichlorobenzene	-	-	-	-
p-Dichlorobenzene	-	0.19 J ✓	-	-
Trans-1,2-Dichloroethene	-	-	-	-
Cis-1,2-Dichloroethene	-	-	-	-
Trans-1,3-Dichloropropene	-	-	-	-
Ethylbenzene	-	-	-	-
Hexachlorobutadiene	-	-	-	-
Hexane	-	-	-	-
2-Hexanone	-	-	-	-
Isopropylbenzene	-	-	-	-
p-Isopropylbenzene	-	-	-	-
Methylene Chloride	-	-	-	-
Methyl Tert Butyl Ether	0.30 J ✓	0.30 J ✓	-	3.9 ✓
4-Methyl-2-Pentanone	-	-	-	-
Naphthalene	-	-	-	-
n-Propylbenzene	-	-	-	-
Styrene	-	-	-	-
1,1,1,2-Tetrachloroethane	-	-	-	-
Tetrahydrofuran	-	-	-	14.4 ✓
1,1,1-Trichloroethane	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-
1,1,2-Trichloroethane	-	-	-	-
1,2,3-Trichlorobenzene	-	-	-	-
1,2,3-Trichloropropane	-	-	-	-
1,2,4-Trichlorobenzene	-	-	-	-
1,2,4-Trimethylbenzene	-	-	-	-
1,3,5-Trimethylbenzene	-	-	-	-
Toluene	-	-	-	0.38 J ✓
Trichloroethene	0.37 J ✓	-	-	-
Trichlorofluoromethane	-	-	-	-
Vinyl Chloride	-	-	-	-
m,p-Xylene	-	-	-	0.24 J ✓
o-Xylene	-	-	-	0.089 J ✓
Xylenes, total	-	-	-	0.33 J ✓

Notes: All concentrations presented in micrograms per liter (ug/l).

- = Parameter not detected above laboratory detection limit.

Residential Maximum Contaminant Level (MCL) for drinking water: 1,2-Dichloroethane: 0.05 ug/l

LENOX CHINA
POMONA, NEW JERSEY

TABLE 2 SECTION 8

HISTORICAL RESIDENTIAL WELL SAMPLING RESULTS THROUGH OCTOBER 2005
(DETECTED COMPOUNDS ONLY)

Sample ID	Date	Acetone	Benzene	Carbon Disulfide	Chloroform	Chlorobenzene	Cis-1,2-Dichloroethene	m-Dichlorobenzene	p-Dichlorobenzene	Ethylbenzene	MTBE	Toluene	Trichloroethene	Tetrahydrofuran	Xylenes (total)
RESW-1	5/16/2002	-	-	-	3.6	-	-	-	-	-	-	-	1.5	-	-
	7/18/2002	-	-	-	4.1	-	-	-	-	-	-	-	1.2	-	-
	10/16/2002	-	-	-	4.2	-	-	-	-	-	0.29	-	0.88	-	-
	1/29/2003	-	-	-	6.6	-	-	-	-	-	-	-	-	-	-
	4/14/2003	-	-	-	4.9	-	-	-	-	-	-	-	0.56	-	-
	7/23/2003	-	-	-	5.5	-	-	-	-	-	-	-	1.1	-	-
	10/30/2003	-	-	-	7.9	-	-	-	-	-	-	-	0.53	-	-
	1/21/2004	-	-	-	6.5	-	-	-	-	-	-	-	0.54	-	-
	4/28/2004	-	-	-	7.2	-	-	-	-	-	-	-	0.65	-	-
	7/23/2004	-	-	-	6.6	-	-	-	-	-	1.4	-	0.39 J	-	-
	10/20/2004	-	-	-	8.5	-	-	-	-	-	0.19 J	-	0.21 J	-	-
	1/20/2005	6.6	-	-	6.6	-	-	-	-	0.16 J	0.70	0.065 J	0.50	-	0.62
	4/20/2005	-	-	-	6.8	-	0.11 J	-	-	-	-	-	0.52	-	-
	7/22/2005	-	-	-	6.5	-	0.093 J	-	-	-	-	-	0.43 J	-	-
	10/27/2005	-	-	-	5.9	-	-	-	-	-	0.30 J	-	0.37 J	-	-
RESW-2	5/16/2002	-	0.88	-	0.51	-	-	-	0.33	-	-	-	-	-	-
	7/18/2002	-	0.96	-	0.38	-	-	-	0.38	-	-	-	-	-	-
	10/16/2002	-	1.4	-	0.29	-	-	0.071	0.33	-	-	-	-	-	-
	1/29/2003	-	1.4	-	0.25 J	-	-	-	0.26 J	-	-	-	-	-	-
	4/14/2003	-	1.4	-	0.28 J	0.098 J	-	0.10 J	0.52	-	-	-	-	-	-
	7/23/2003	-	0.78	-	-	-	-	-	-	-	-	-	-	-	-
	10/30/2003	-	0.52	-	0.68	-	-	-	0.31 J	-	-	-	-	-	-
	1/21/2004	-	0.60	-	0.49 J	-	-	-	-	-	-	-	-	-	-
	4/28/2004	-	0.55	1.2	0.52	-	-	-	-	-	-	-	-	-	-
	7/23/2004	-	0.29 J	-	0.52	-	-	-	-	-	0.20 J	-	-	-	-
	10/20/2004	-	0.22 J	-	0.40 J	-	-	-	0.14 J	-	-	-	-	-	-
	1/20/2005	-	0.30 J	-	0.29 J	-	-	-	0.099 J	-	0.088 J	-	-	-	-
	4/20/2005	-	0.24 J	-	0.39 J	-	-	-	0.19 J	-	-	-	-	-	-
	7/22/2005	-	0.31 J	0.24 J	0.29 J	-	-	-	0.087 J	-	0.46 J	-	-	-	-
	10/27/2005	-	0.38 J	-	0.15 J	-	-	-	0.19 J	-	0.30 J	-	-	-	-

Notes:

All concentrations presented in micrograms per liter (ug/l).

- = Not detected above laboratory detection limit.

J = Estimated concentration. NS = Not sampled.

Values in **bold** font exceed the site specific Groundwater Quality Criteria for TCE (1.0 ug/l).

TABLE 2 SECTION 8, CONTINUED...

Sample ID	Date	Acetone	Benzene	Carbon Disulfide	Chloroform	Chlorobenzene	Cis-1,2-Dichloroethene	m-Dichlorobenzene	p-Dichlorobenzene	Ethylbenzene	MTBE	Toluene	Trichloroethene	Tetrahydrofuran	Xylenes (total)
RESW-3	6/4/2002	-	-	-	2.7	-	-	-	-	-	-	-	-	-	-
	7/18/2002	-	-	-	2.6	-	-	-	-	-	-	-	-	-	-
	10/16/2002	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-
	1/29/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	4/16/2003	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-
	7/23/2003	-	-	-	2.9	-	-	-	-	-	-	-	-	-	-
	10/30/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	1/21/2004	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	4/28/2004	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	7/23/2004	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	10/20/2004	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-
	1/20/2005	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	4/20/2005	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	7/22/2005	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS
	10/27/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RESW-4	1/29/2003	-	-	-	0.29 J	-	-	-	-	-	1.3	-	-	-	-
	4/14/2003	-	-	-	0.22 J	-	-	-	-	-	1.3	-	-	-	-
	7/23/2003	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-
	10/30/2003	-	-	-	-	-	-	-	-	-	2.3	-	-	-	-
	1/21/2004	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-
	4/28/2004	-	-	-	-	-	-	-	-	-	2.3	-	-	-	-
	7/23/2004	-	-	-	-	-	-	-	-	-	2.6	-	-	-	-
	10/20/2004	-	-	-	-	-	-	-	-	-	1.9	-	-	-	-
	1/20/2005	-	-	-	0.15 J	-	-	-	-	-	1.7	-	-	-	-
	4/20/2005	-	-	-	0.14 J	-	-	-	-	-	1.4	-	-	-	-
	7/22/2005	-	-	0.089 J	0.16 J	-	-	-	-	-	1.2	-	-	-	-
	10/27/2005	-	-	-	0.50	-	-	-	-	-	3.9	0.38 J	-	14.4	0.33 J

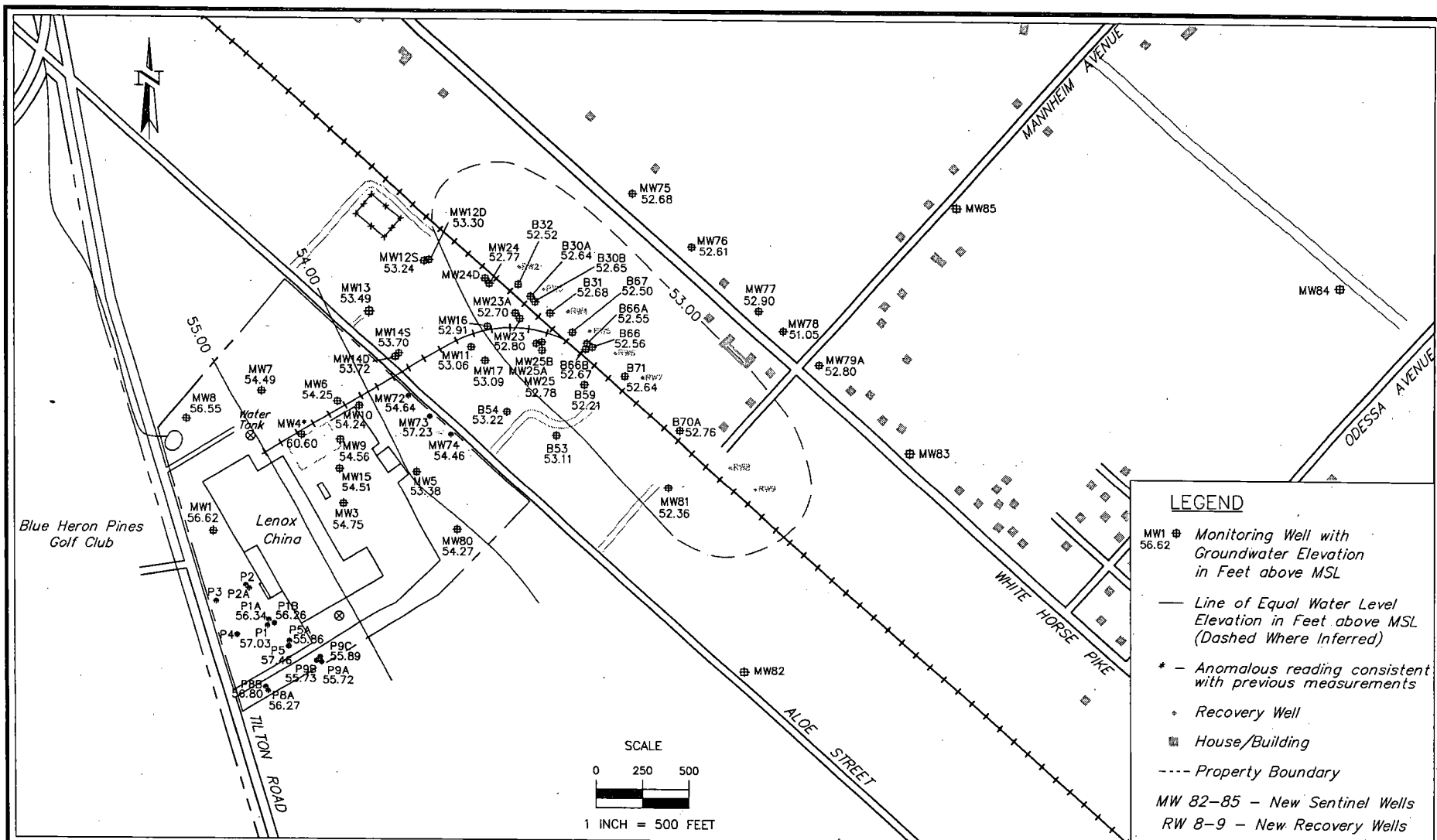
Notes:

All concentrations presented in micrograms per liter (ug/l).

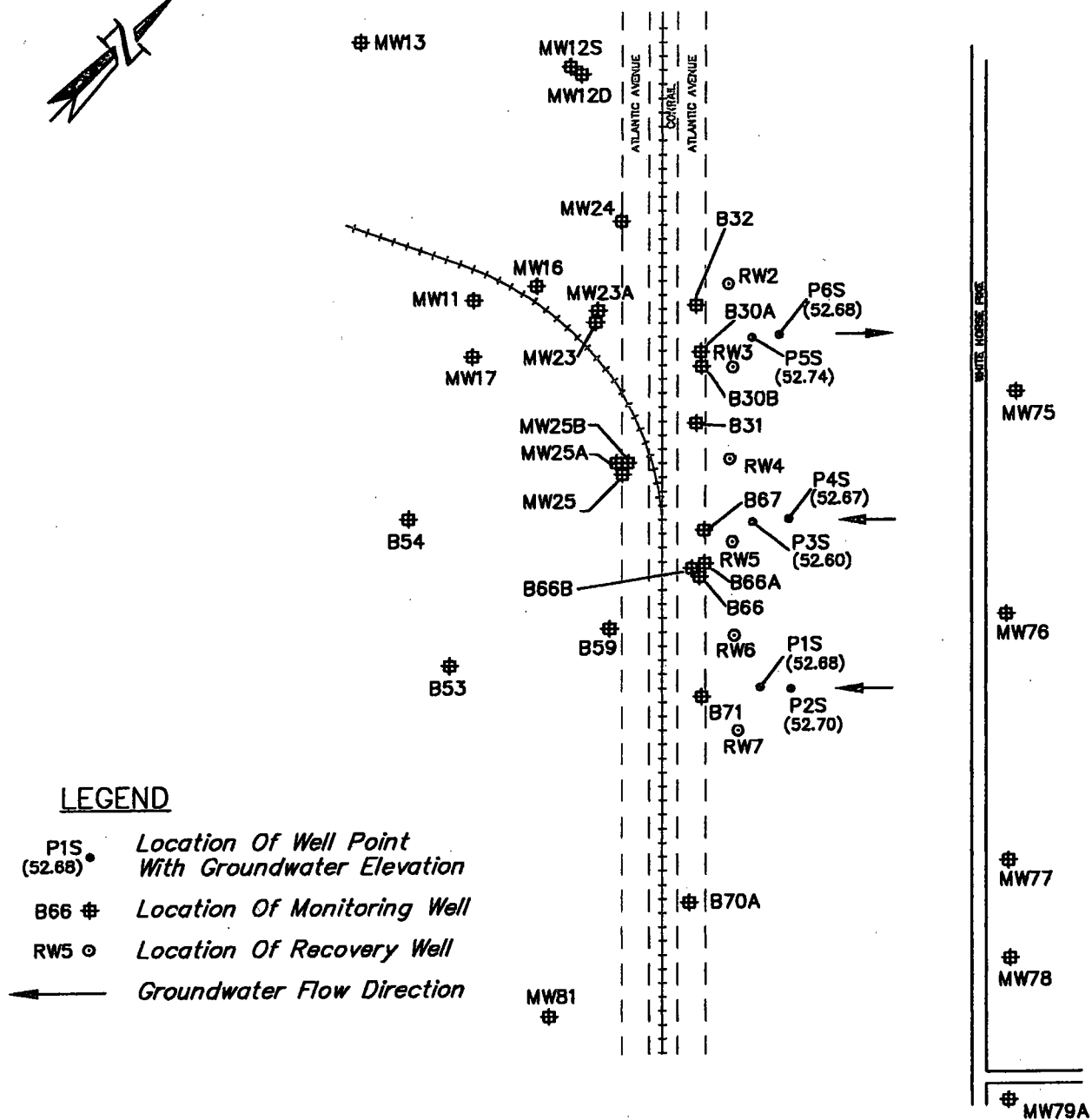
- = Not detected above laboratory detection limit.

J = Estimated concentration. NS = Not sampled.

Values in **bold** font exceed the site specific Groundwater Quality Criteria for TCE (1.0 ug/l).



Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

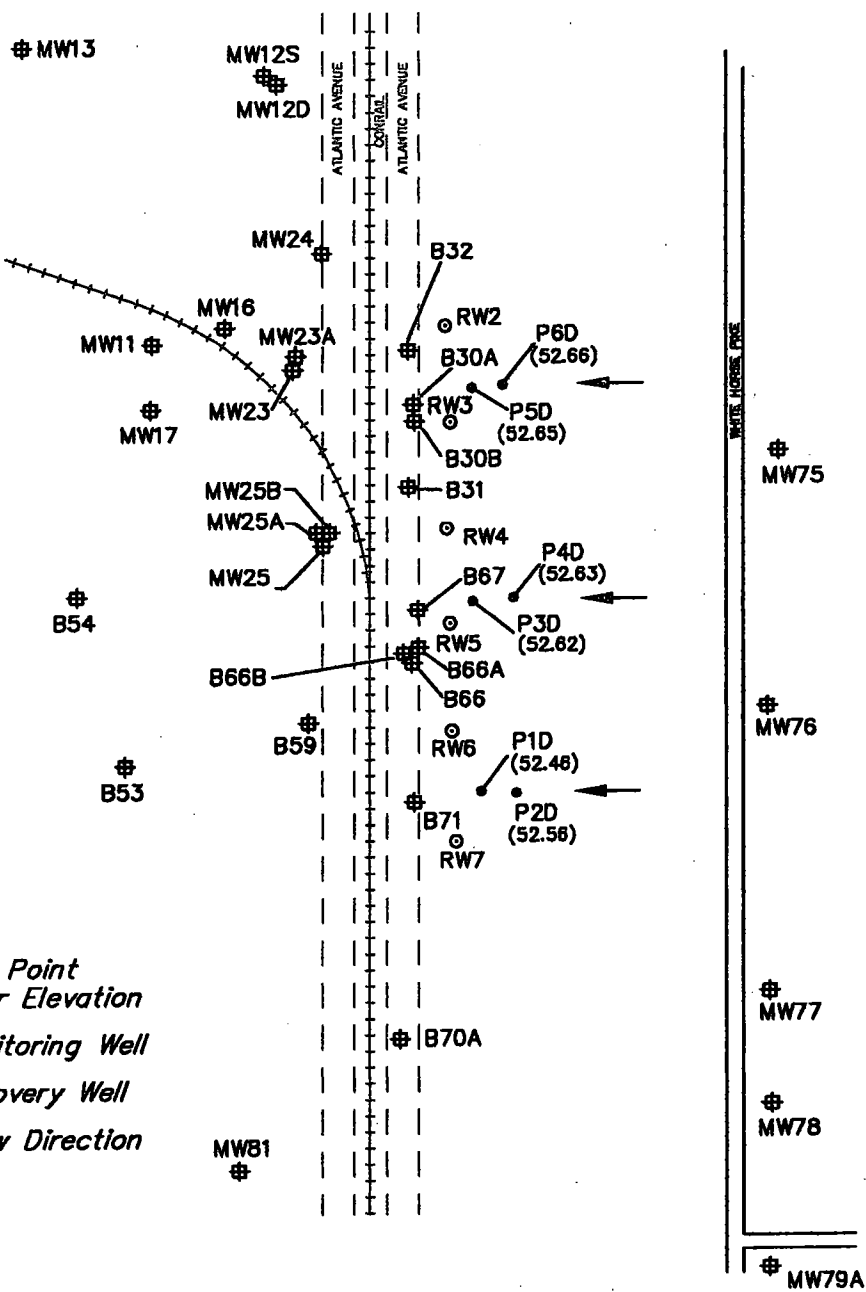


**FIGURE NO: 2 GROUNDWATER FLOW MAP, SHALLOW WELLS
OCTOBER 25, 2005**

LENOX CHINA
POMONA, NEW JERSEY



Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY



LEGEND

- P1D (52.46) * Location Of Well Point With Groundwater Elevation
- B66 # Location Of Monitoring Well
- RW5 o Location Of Recovery Well
- ← Groundwater Flow Direction

NOTE:

Base Map Obtained From
Geraghty & Miller's August 1992
Groundwater Monitoring Report.



**FIGURE NO: 3 GROUNDWATER FLOW MAP, DEEP WELLS
OCTOBER 25, 2005**

LENOX CHINA
POMONA, NEW JERSEY



Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

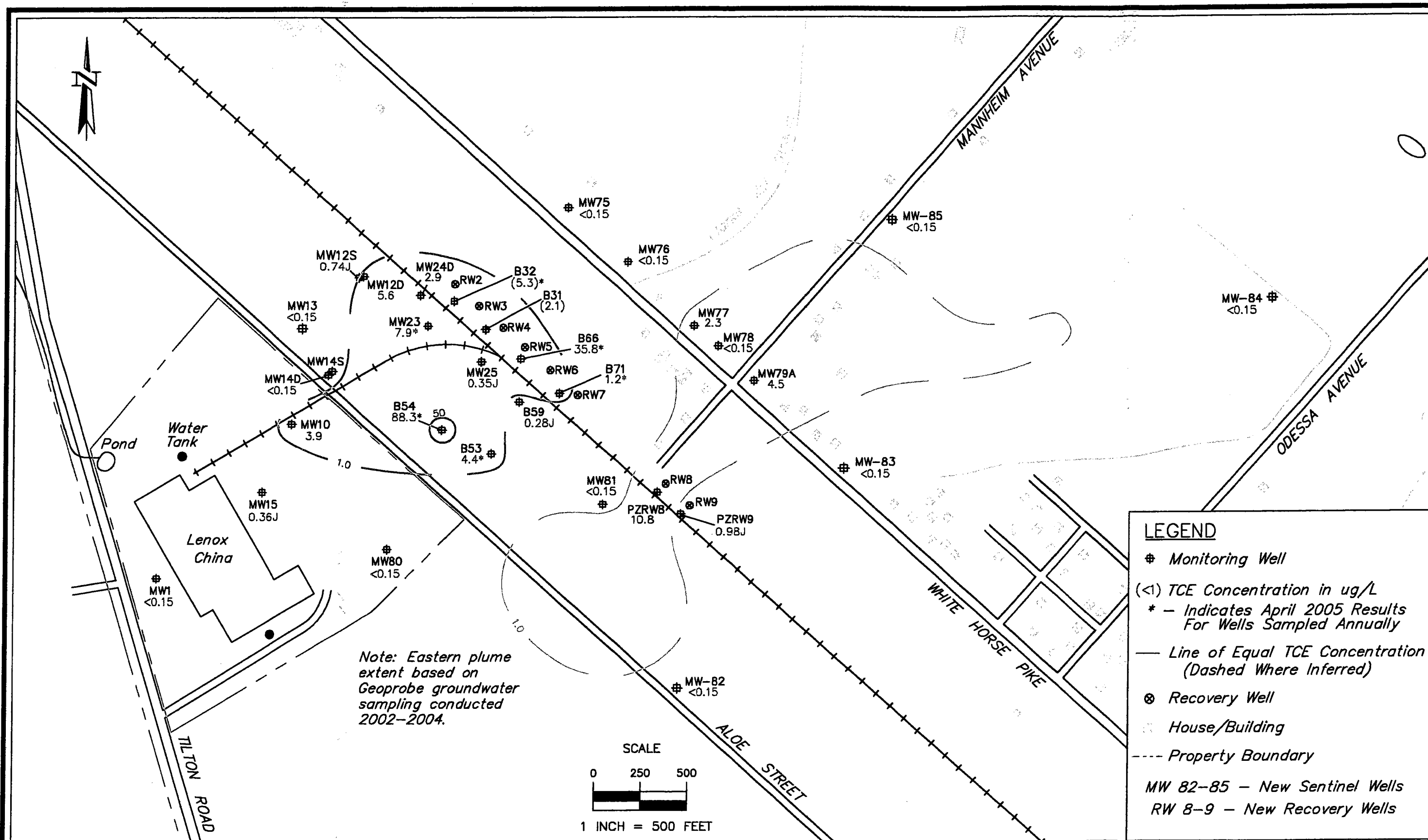


FIGURE NO: 4 EXTENT OF TRICHLOROETHENE IN GROUNDWATER, OCTOBER 25-28, 2005
 LENOX CHINA
 POMONA, NEW JERSEY

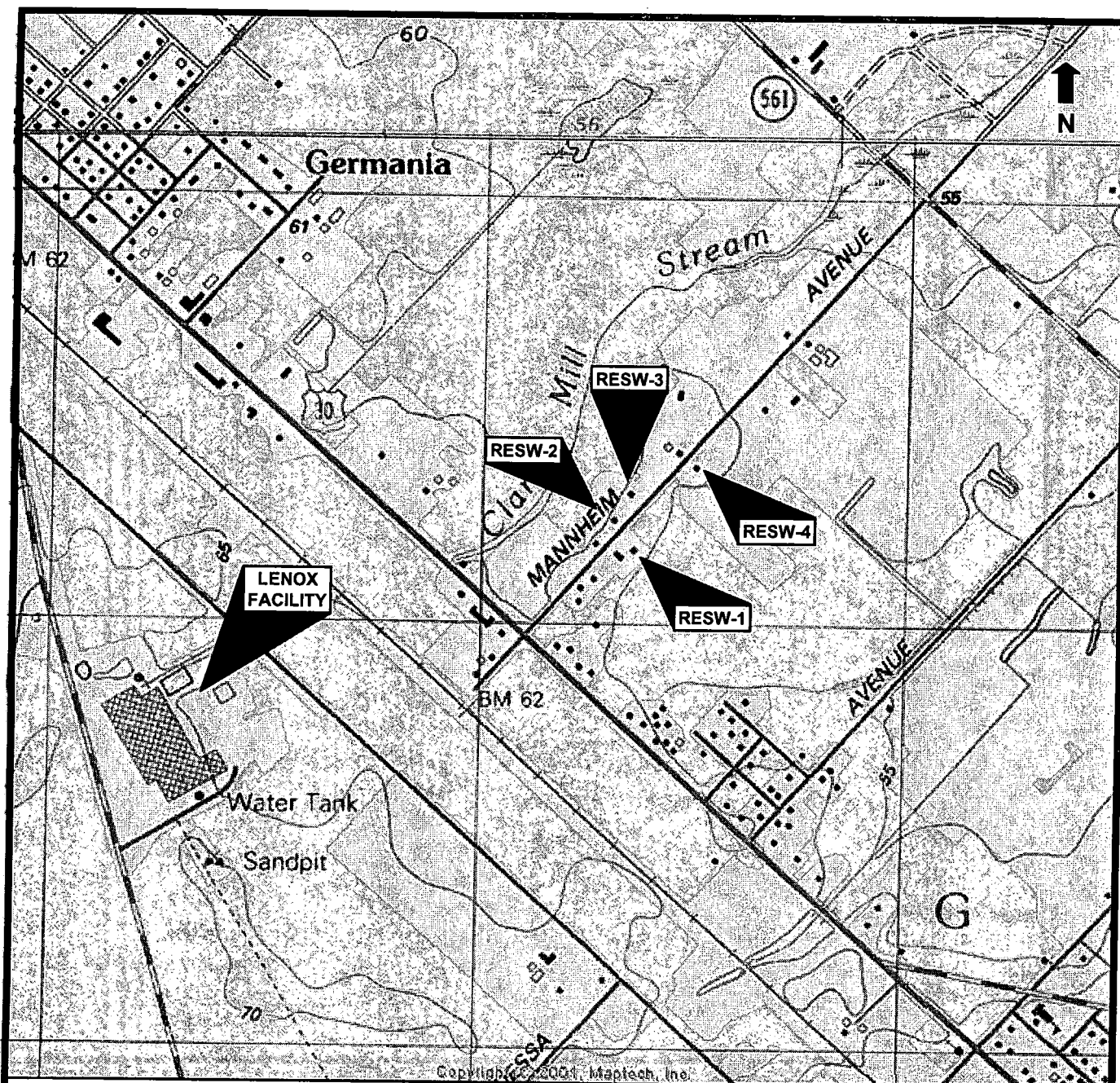


FIGURE NO: 5
RESIDENTIAL WELL SAMPLING LOCATIONS
LENOX CHINA
POMONA, NEW JERSEY

Approximate Scale: 1 inch = 1,200 feet

Source Map: USGS 7.5 Minute Series, Topo Map - Pleasantville, NJ 1989



Gannett Fleming

ENGINEERS AND PLANNERS
 PRINCETON, NEW JERSEY